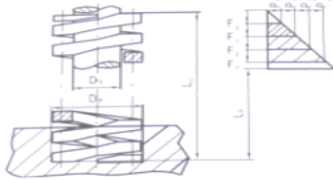
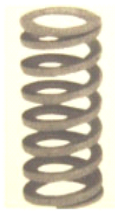
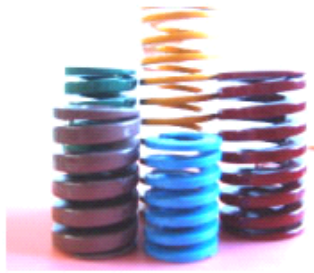




MASCOT SPRING

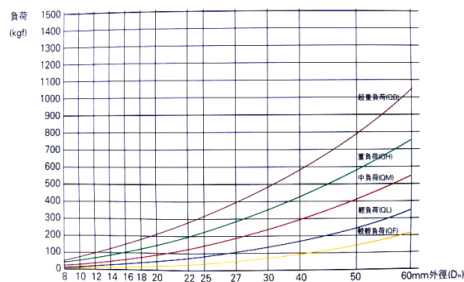
MASCOT SPRING JIS DIE SPRING



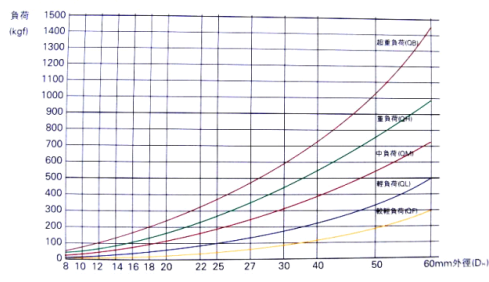
- D: 套筒直径 Hole diameter
- D₁: 芯轴直径 Rod diameter
- L: 自由长度 Length of unloaded spring
- P: 弹簧刚度 Spring rate
- F: 预压时弹簧变形量 Pretension travel strokes
- P: 预压时负荷 Pretension load
- F: 弹簧变形量 Spring travel strokes
- P: 工作负荷 Spring loads
- L: 弹簧并紧高度 Block length of spring (all windings are in contact)

| 种类 Description | 使用回数 Working Times | 100 万回 (自由长%) 1 million (% of free length) | 50 万回 (自由长%) 0.5 million (% of free length) | 30 万回 (自由长%) 0.3 million (% of free length) | 最大压缩数 (自由长%) MAX Deflection (% of free length) |
|-------------------------|-----------------------|--|---|---|--|
| 超轻负荷 Extra Light Load | | 40.0% | 45.0% | 50.0% | Approx. 60.0% |
| 较轻负荷 Smaller Light Load | | 40.0% | 45.0% | 50.0% | Approx. 58.0% |
| 轻负荷 Light Load | | 32.0% | 36.0% | 40.0% | Approx. 48.0% |
| 中负荷 Medium Load | | 25.6% | 28.8% | 32.0% | Approx. 38.0% |
| 重负荷 Heavy Load | | 19.2% | 21.6% | 24.0% | Approx. 28.0% |
| 超重负荷 Brown Load | | 16.0% | 18.0% | 20.0% | Approx. 24.0% |

■ 使用100萬回曲线



■ 使用30萬回曲线



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SHANGHAI MASCOT SPRING

| MSC 超轻负荷/Extra Light Load | | | | | | 银色/Silver | | | | | |
|---------------------------|-----------------------------|-----------------------------|-------------------------------------|--------------------------------|--|---------------------------|-----------------------|---------------------------|-----------------------|---------------------------|-----------------------|
| 型号 Part Number | 外径 Outer Dia. (mm) | 内径 Inner Dia. (mm) | 自由长 Free Length 长度 (mm) | 实体长 Solid Length (mm) | 弹簧定数 Spring Constant 定数 (kgf/mm) | 自由长 X 40% | | 自由长 X 45% | | 自由长 X 50% | |
| | | | | | | Deflection 压缩数 (mm) | 荷重 Load kgf (N) | Deflection 压缩数 (mm) | 荷重 Load kgf (N) | Deflection 压缩数 (mm) | 荷重 Load kgf (N) |
| MR14.5*20 | 14.5 | 9.0 | 20 | 8.0 | 1.10 | 8.0 | 9.0 (88.3) | 9.0 | 10.0 (98.1) | 10.0 | 11.0 (107.9) |
| 25 | | | 25 | 10.0 | 0.88 | 10.0 | | 11.3 | | | |
| 30 | | | 30 | 12.0 | 0.73 | 12.0 | | 13.5 | | | |
| 35 | | | 35 | 14.0 | 0.63 | 14.0 | | 15.8 | | | |
| 40 | | | 40 | 16.0 | 0.55 | 16.0 | | 18.0 | | | |
| 45 | | | 45 | 18.0 | 0.49 | 18.0 | | 20.3 | | | |
| 50 | | | 50 | 20.0 | 0.44 | 20.0 | | 22.5 | | | |
| 55 | | | 55 | 22.0 | 0.40 | 22.0 | | 24.8 | | | |
| 60 | | | 60 | 24.0 | 0.37 | 24.0 | | 27.0 | | | |
| 65 | | | 65 | 26.0 | 0.34 | 26.0 | | 29.3 | | | |
| 70 | | | 70 | 28.0 | 0.31 | 28.0 | | 31.5 | | | |
| 75 | | | 75 | 30.0 | 0.29 | 30.0 | | 33.8 | | | |
| 80 | | | 80 | 32.0 | 0.28 | 32.0 | | 36.0 | | | |
| 90 | | | 90 | 36.0 | 0.24 | 36.0 | | 40.5 | | | |
| 100 | | | 100 | 40.0 | 0.22 | 40.0 | | 45.0 | | | |
| 125 | 125 | 50.0 | 0.18 | 50.0 | 56.3 | | | | | | |
| MR17*25 | 17.0 | ##### | 25 | 10.0 | 1.52 | 10.0 | 15.0 (147.1) | 11.3 | 17.0 (166.7) | 12.5 | 19.0 (186.3) |
| 30 | | | 30 | 12.0 | 1.27 | 12.0 | | 13.5 | | | |
| 35 | | | 35 | 14.0 | 1.09 | 14.0 | | 15.8 | | | |
| 40 | | | 40 | 16.0 | 0.95 | 16.0 | | 18.0 | | | |
| 45 | | | 45 | 18.0 | 0.84 | 18.0 | | 20.3 | | | |
| 50 | | | 50 | 20.0 | 0.76 | 20.0 | | 22.5 | | | |
| 55 | | | 55 | 22.0 | 0.69 | 22.0 | | 24.8 | | | |
| 60 | | | 60 | 24.0 | 0.63 | 24.0 | | 27.0 | | | |
| 65 | | | 65 | 26.0 | 0.58 | 26.0 | | 29.3 | | | |
| 70 | | | 70 | 28.0 | 0.54 | 28.0 | | 31.5 | | | |
| 75 | | | 75 | 30.0 | 0.51 | 30.0 | | 33.8 | | | |
| 80 | | | 80 | 32.0 | 0.48 | 32.0 | | 36.0 | | | |
| 90 | | | 90 | 36.0 | 0.42 | 36.0 | | 40.5 | | | |
| 100 | | | 100 | 40.0 | 0.38 | 40.0 | | 45.0 | | | |
| 125 | | | 125 | 50.0 | 0.30 | 50.0 | | 56.3 | | | |
| 150 | 150 | 60.0 | 0.25 | 60.0 | 67.5 | | | | | | |
| MR21*30 | 21.0 | ##### | 30 | 12.0 | 1.40 | 12.0 | 17.0 (166.7) | 13.5 | 19.0 (186.3) | 15.0 | 21.0 (205.9) |
| 35 | | | 35 | 14.0 | 1.20 | 14.0 | | 15.8 | | | |
| 40 | | | 40 | 16.0 | 1.05 | 16.0 | | 18.0 | | | |
| 45 | | | 45 | 18.0 | 0.93 | 18.0 | | 20.3 | | | |
| 50 | | | 50 | 20.0 | 0.84 | 20.0 | | 22.5 | | | |
| 55 | | | 55 | 22.0 | 0.76 | 22.0 | | 24.8 | | | |
| 60 | | | 60 | 24.0 | 0.70 | 24.0 | | 27.0 | | | |
| 65 | | | 65 | 26.0 | 0.65 | 26.0 | | 29.3 | | | |
| 70 | | | 70 | 28.0 | 0.60 | 28.0 | | 31.5 | | | |
| 75 | | | 75 | 30.0 | 0.56 | 30.0 | | 33.8 | | | |
| 80 | | | 80 | 32.0 | 0.53 | 32.0 | | 36.0 | | | |
| 90 | | | 90 | 36.0 | 0.47 | 36.0 | | 40.5 | | | |
| 100 | | | 100 | 40.0 | 0.42 | 40.0 | | 45.0 | | | |
| 125 | | | 125 | 50.0 | 0.34 | 50.0 | | 56.3 | | | |
| 150 | | | 150 | 60.0 | 0.28 | 60.0 | | 67.5 | | | |
| MR26*30 | 26.0 | ##### | 30 | 12.0 | 2.73 | 12.0 | 33.0 (323.0) | 13.5 | 37.0 (362.8) | 15.0 | 41.0 (402.1) |
| 35 | | | 35 | 14.0 | 2.34 | 14.0 | | 15.8 | | | |
| 40 | | | 40 | 16.0 | 2.05 | 16.0 | | 18.0 | | | |
| 45 | | | 45 | 18.0 | 1.82 | 18.0 | | 20.3 | | | |
| 50 | | | 50 | 20.0 | 1.64 | 20.0 | | 22.5 | | | |
| 55 | | | 55 | 22.0 | 1.49 | 22.0 | | 24.8 | | | |
| 60 | | | 60 | 24.0 | 1.37 | 24.0 | | 27.0 | | | |
| 65 | | | 65 | 26.0 | 1.26 | 26.0 | | 29.3 | | | |
| 70 | | | 70 | 28.0 | 1.17 | 28.0 | | 31.5 | | | |
| 75 | | | 75 | 30.0 | 1.09 | 30.0 | | 33.8 | | | |
| 80 | | | 80 | 32.0 | 1.03 | 32.0 | | 36.0 | | | |
| 90 | | | 90 | 36.0 | 0.91 | 36.0 | | 40.5 | | | |
| 100 | | | 100 | 40.0 | 0.82 | 40.0 | | 45.0 | | | |
| 110 | | | 110 | 44.0 | 0.75 | 44.0 | | 49.5 | | | |

| | | | | | | | | | | | | | | | | |
|---------|------|-------|------|-------|------|-------|-----------------|-------|-----------------|-------|-----------------|-----------------|------|-----------------|-----------------|-----------------|
| 125 | | | 125 | 50.0 | 0.66 | 50.0 | | 56.3 | | 62.5 | | | | | | |
| 150 | | | 150 | 60.0 | 0.55 | 60.0 | | 67.5 | | 75.0 | | | | | | |
| 175 | | | 175 | 70.0 | 0.47 | 70.0 | | 78.8 | | 87.5 | | | | | | |
| 200 | | | 200 | 80.0 | 0.41 | 80.0 | | 90.0 | | 100.0 | | | | | | |
| MR32*40 | 32.0 | #### | 40 | 16.0 | 2.55 | 16.0 | 41.0 (402.1) | 18.0 | 46.0 (451.1) | 20.0 | 51.0 (500.1) | | | | | |
| 45 | | | 45 | 18.0 | 2.27 | 18.0 | | 20.3 | | 22.5 | | | | | | |
| 50 | | | 50 | 20.0 | 2.04 | 20.0 | | 22.5 | | 25.0 | | | | | | |
| 60 | | | 60 | 24.0 | 1.70 | 24.0 | | 27.0 | | 30.0 | | | | | | |
| 70 | | | 70 | 28.0 | 1.46 | 28.0 | | 31.5 | | 35.0 | | | | | | |
| 80 | | | 80 | 32.0 | 1.28 | 32.0 | | 36.0 | | 40.0 | | | | | | |
| 90 | | | 90 | 36.0 | 1.13 | 36.0 | | 40.5 | | 45.0 | | | | | | |
| 100 | | | 100 | 40.0 | 1.02 | 40.0 | | 45.0 | | 50.0 | | | | | | |
| 110 | | | 110 | 44.0 | 0.93 | 44.0 | | 49.5 | | 55.0 | | | | | | |
| 125 | | | 125 | 50.0 | 0.82 | 50.0 | | 56.3 | | 62.5 | | | | | | |
| 150 | | | 150 | 60.0 | 0.68 | 60.0 | | 67.5 | | 75.0 | | | | | | |
| 175 | | | 175 | 70.0 | 0.58 | 70.0 | | 78.8 | | 87.5 | | | | | | |
| 200 | | | 200 | 80.0 | 0.51 | 80.0 | | 90.0 | | 100.0 | | | | | | |
| 250 | | | 250 | 100.0 | 0.41 | 100.0 | | 112.5 | | 125.0 | | | | | | |
| 300 | | | 300 | 120.0 | 0.34 | 120.0 | | 135.0 | | 150.0 | | | | | | |
| MR39*40 | | | 39.0 | #### | 40 | 16.0 | | 2.75 | | 16.0 | | 44.0 (431.5) | 18.0 | 50.0 (409.3) | 20.0 | 55.0 (539.4) |
| 45 | | | | | 45 | 18.0 | | 2.44 | | 18.0 | | | 20.3 | | 22.5 | |
| 50 | 50 | 20.0 | | | 2.20 | 20.0 | 22.5 | 25.0 | | | | | | | | |
| 60 | 60 | 24.0 | | | 1.83 | 24.0 | 27.0 | 30.0 | | | | | | | | |
| 70 | 70 | 28.0 | | | 1.57 | 28.0 | 31.5 | 35.0 | | | | | | | | |
| 80 | 80 | 32.0 | | | 1.38 | 32.0 | 36.0 | 40.0 | | | | | | | | |
| 90 | 90 | 36.0 | | | 1.22 | 36.0 | 40.5 | 45.0 | | | | | | | | |
| 100 | 100 | 40.0 | | | 1.10 | 40.0 | 45.0 | 50.0 | | | | | | | | |
| 110 | 110 | 44.0 | | | 1.00 | 44.0 | 49.5 | 55.0 | | | | | | | | |
| 125 | 125 | 50.0 | | | 0.88 | 50.0 | 56.3 | 62.5 | | | | | | | | |
| 150 | 150 | 60.0 | | | 0.73 | 60.0 | 67.5 | 75.0 | | | | | | | | |
| 175 | 175 | 70.0 | | | 0.63 | 70.0 | 78.8 | 87.5 | | | | | | | | |
| 200 | 200 | 80.0 | | | 0.55 | 80.0 | 90.0 | 100.0 | | | | | | | | |
| 250 | 250 | 100.0 | | | 0.44 | 100.0 | 112.5 | 125.0 | | | | | | | | |
| 300 | 300 | 120.0 | | | 0.37 | 120.0 | 135.0 | 150.0 | | | | | | | | |
| MR46*50 | 46.0 | #### | | | 50 | 20.0 | 2.48 | 20.0 | 50.0 (490.3) | 22.5 | 56.0 (549.2) | | 25.0 | | 62.0 (608.0) | |
| 60 | | | | | 60 | 24.0 | 2.07 | 24.0 | | 27.0 | | | 30.0 | | | |
| 70 | | | 70 | 28.0 | 1.77 | 28.0 | 31.5 | 35.0 | | | | | | | | |
| 80 | | | 80 | 32.0 | 1.55 | 32.0 | 36.0 | 40.0 | | | | | | | | |
| 90 | | | 90 | 36.0 | 1.38 | 36.0 | 40.5 | 45.0 | | | | | | | | |
| 100 | | | 100 | 40.0 | 1.24 | 40.0 | 45.0 | 50.0 | | | | | | | | |
| 110 | | | 110 | 44.0 | 1.13 | 44.0 | 49.5 | 55.0 | | | | | | | | |
| 125 | | | 125 | 50.0 | 0.99 | 50.0 | 56.3 | 62.5 | | | | | | | | |
| 150 | | | 150 | 60.0 | 0.83 | 60.0 | 67.5 | 75.0 | | | | | | | | |
| 175 | | | 175 | 70.0 | 0.71 | 70.0 | 78.8 | 87.5 | | | | | | | | |
| 200 | | | 200 | 80.0 | 0.62 | 80.0 | 90.0 | 100.0 | | | | | | | | |
| 250 | | | 250 | 100.0 | 0.50 | 100.0 | 112.5 | 125.0 | | | | | | | | |
| 300 | | | 300 | 120.0 | 0.41 | 120.0 | 135.0 | 150.0 | | | | | | | | |

| MSC 较轻负荷/Smaller Light Load 黄色/Yellow | | | | | | | | | | |
|---------------------------------------|-----------------------------|-----------------------------|-------------------------------------|--|----------------------------------|----------------------|----------------------------------|----------------------|----------------------------------|----------------------|
| 型号 Part Number | 外径 Outer Dia. (mm) | 内径 Inner Dia. (mm) | 自由长 Free Length 长度 (mm) | 弹簧定数 Spring Constant 定数 (kgf/mm) | 自由长 X 50% | | 自由长 X 45% | | 自由长 X 40% | |
| | | | | | 反射数 Reflection 压缩数 (mm) | 荷重 Load kgf(N) | 反射数 Reflection 压缩数 (mm) | 荷重 Load kgf(N) | 反射数 Reflection 压缩数 (mm) | 荷重 Load kgf(N) |
| MF 8*10 | | | 10 | 1.56 | 5.00 | | 4.50 | | 4.00 | |
| MF 8*15 | | | 15 | 1.04 | 7.50 | | 6.80 | | 6.00 | |
| MF 8*20 | | | 20 | 0.78 | 10.00 | | 9.00 | | 8.00 | |
| MF 8*25 | | | 25 | 0.62 | 12.50 | | 11.20 | | 10.00 | |
| MF 8*30 | | | 30 | 0.52 | 15.00 | | 13.50 | | 12.00 | |
| MF 8*35 | 8 | 4 | 35 | 0.44 | 17.50 | 8(78.5) | 15.70 | 7(68.6) | 14.00 | 6(58.8) |
| MF 8*40 | | | 40 | 0.39 | 20.00 | | 18.00 | | 16.00 | |
| MF 8*45 | | | 45 | 0.35 | 22.50 | | 20.20 | | 18.00 | |
| MF 8*50 | | | 50 | 0.31 | 25.00 | | 22.50 | | 20.00 | |
| MF 8*55 | | | 55 | 0.28 | 27.50 | | 24.70 | | 22.00 | |
| MF 8*60 | | | 60 | 0.26 | 30.00 | | 27.00 | | 24.00 | |
| MF 10*20 | | | 20 | 1.00 | 10.00 | | 9.00 | | 8.00 | |
| MF 10*25 | | | 25 | 0.80 | 12.50 | | 11.20 | | 10.00 | |

| | | | | | | | | | | |
|-----------|----|-----|------|-------|-------|-----------|-------|-------------|-------|-------------|
| MF 10*30 | | 30 | 0.67 | 15.00 | | 13.50 | | 12.00 | | |
| MF 10*35 | | 35 | 0.57 | 17.50 | | 15.70 | | 14.00 | | |
| MF 10*40 | | 40 | 0.50 | 20.00 | | 18.00 | | 16.00 | | |
| MF 10*45 | | 45 | 0.44 | 22.50 | | 20.20 | | 18.00 | | |
| MF 10*50 | 10 | 5 | 50 | 0.40 | 25.00 | 10(98.1) | 22.50 | 9(88.3) | 20.00 | 8(78.5) |
| MF 10*55 | | 55 | 0.36 | 27.50 | | 24.70 | | 22.00 | | |
| MF 10*60 | | 60 | 0.33 | 30.00 | | 27.00 | | 24.00 | | |
| MF 10*65 | | 65 | 0.31 | 32.50 | | 29.20 | | 26.00 | | |
| MF 10*70 | | 70 | 0.29 | 35.00 | | 31.50 | | 28.00 | | |
| MF 10*75 | | 75 | 0.27 | 37.50 | | 33.70 | | 30.00 | | |
| MF 10*80 | | 80 | 0.25 | 40.00 | | 36.00 | | 32.00 | | |
| MF 12*20 | | 20 | 1.40 | 10.00 | | 9.00 | | 8.00 | | |
| MF 12*25 | | 25 | 1.12 | 12.50 | | 11.20 | | 10.00 | | |
| MF 12*30 | | 30 | 0.93 | 15.00 | | 13.50 | | 12.00 | | |
| MF 12*35 | | 35 | 0.80 | 17.50 | | 15.70 | | 14.00 | | |
| MF 12*40 | | 40 | 0.70 | 20.00 | | 18.00 | | 16.00 | | |
| MF 12*45 | | 45 | 0.62 | 22.50 | | 20.20 | | 18.00 | | |
| MF 12*50 | 12 | 6 | 50 | 0.56 | 25.00 | 14(137.3) | 22.50 | 12.5(122.6) | 20.00 | 11(107.9) |
| MF 12*55 | | 55 | 0.51 | 27.50 | | 24.70 | | 22.00 | | |
| MF 12*60 | | 60 | 0.47 | 30.00 | | 27.00 | | 24.00 | | |
| MF 12*65 | | 65 | 0.43 | 32.50 | | 29.20 | | 26.00 | | |
| MF 12*70 | | 70 | 0.40 | 35.00 | | 31.50 | | 28.00 | | |
| MF 12*75 | | 75 | 0.37 | 37.50 | | 33.70 | | 30.00 | | |
| MF 12*80 | | 80 | 0.35 | 40.00 | | 36.00 | | 32.00 | | |
| MF 14*25 | | 25 | 1.44 | 12.50 | | 11.20 | | 10.00 | | |
| MF 14*30 | | 30 | 1.20 | 15.00 | | 13.50 | | 12.00 | | |
| MF 14*35 | | 35 | 1.03 | 17.50 | | 15.70 | | 14.00 | | |
| MF 14*40 | | 40 | 0.90 | 20.00 | | 18.00 | | 16.00 | | |
| MF 14*45 | | 45 | 0.80 | 22.50 | | 20.20 | | 18.00 | | |
| MF 14*50 | | 50 | 0.72 | 25.00 | | 22.50 | | 20.00 | | |
| MF 14*55 | 14 | 7 | 55 | 0.65 | 27.50 | 18(176.5) | 24.70 | 16(156.9) | 22.00 | 14.5(142.2) |
| MF 14*60 | | 60 | 0.60 | 30.00 | | 27.00 | | 24.00 | | |
| MF 14*65 | | 65 | 0.55 | 32.50 | | 29.20 | | 26.00 | | |
| MF 14*70 | | 70 | 0.51 | 35.00 | | 31.50 | | 28.00 | | |
| MF 14*75 | | 75 | 0.48 | 37.50 | | 33.70 | | 30.00 | | |
| MF 14*80 | | 80 | 0.45 | 40.00 | | 36.00 | | 32.00 | | |
| MF 14*90 | | 90 | 0.40 | 45.00 | | 40.50 | | 36.00 | | |
| MF 16*25 | | 25 | 1.68 | 12.50 | | 11.20 | | 10.00 | | |
| MF 16*30 | | 30 | 1.40 | 15.00 | | 13.50 | | 12.00 | | |
| MF 16*35 | | 35 | 1.20 | 17.50 | | 15.70 | | 14.00 | | |
| MF 16*40 | | 40 | 1.05 | 20.00 | | 18.00 | | 16.00 | | |
| MF 16*45 | | 45 | 0.94 | 22.50 | | 20.20 | | 18.00 | | |
| MF 16*50 | | 50 | 0.84 | 25.00 | | 22.50 | | 20.00 | | |
| MF 16*55 | 16 | 8 | 55 | 0.77 | 27.50 | 21(206) | 24.70 | 19(186.3) | 22.00 | 17(166.7) |
| MF 16*60 | | 60 | 0.70 | 30.00 | | 27.00 | | 24.00 | | |
| MF 16*65 | | 65 | 0.65 | 32.50 | | 29.20 | | 26.00 | | |
| MF 16*70 | | 70 | 0.60 | 35.00 | | 31.50 | | 28.00 | | |
| MF 16*75 | | 75 | 0.56 | 37.50 | | 33.70 | | 30.00 | | |
| MF 16*80 | | 80 | 0.53 | 40.00 | | 36.00 | | 32.00 | | |
| MF 16*90 | | 90 | 0.47 | 45.00 | | 40.50 | | 36.00 | | |
| MF 16*100 | | 100 | 0.42 | 50.00 | | 45.00 | | 40.00 | | |
| MF 18*25 | | 25 | 2.08 | 12.50 | | 11.20 | | 10.00 | | |
| MF 18*30 | | 30 | 1.74 | 15.00 | | 13.50 | | 12.00 | | |
| MF 18*35 | | 35 | 1.49 | 17.50 | | 15.70 | | 14.00 | | |
| MF 18*40 | | 40 | 1.30 | 20.00 | | 18.00 | | 16.00 | | |
| MF 18*45 | | 45 | 1.16 | 22.50 | | 20.20 | | 18.00 | | |
| MF 18*50 | | 50 | 1.04 | 25.00 | | 22.50 | | 20.00 | | |
| MF 18*55 | 18 | 9 | 55 | 0.95 | 27.50 | 26(255) | 24.70 | 23(256) | 22.00 | 21(206) |
| MF 18*60 | | 60 | 0.87 | 30.00 | | 27.00 | | 24.00 | | |
| MF 18*65 | | 65 | 0.80 | 32.50 | | 29.20 | | 26.00 | | |
| MF 18*70 | | 70 | 0.74 | 35.00 | | 31.50 | | 28.00 | | |
| MF 18*75 | | 75 | 0.70 | 37.50 | | 33.70 | | 30.00 | | |
| MF 18*80 | | 80 | 0.65 | 40.00 | | 36.00 | | 32.00 | | |
| MF 18*90 | | 90 | 0.58 | 45.00 | | 40.50 | | 36.00 | | |
| MF 18*100 | | 100 | 0.52 | 50.00 | | 45.00 | | 40.00 | | |
| MF 20*25 | | 25 | 2.56 | 12.50 | | 11.20 | | 10.00 | | |
| MF 20*30 | | 30 | 2.13 | 15.00 | | 13.50 | | 12.00 | | |
| MF 20*35 | | 35 | 1.83 | 17.50 | | 15.70 | | 14.00 | | |
| MF 20*40 | | 40 | 1.60 | 20.00 | | 18.00 | | 16.00 | | |

| | | | | | | | | |
|-----------|------|-----|------|-------|----------|-------|----------|-------|
| MF 20*45 | | 45 | 1.42 | 22.50 | | 20.20 | | 18.00 |
| MF 20*50 | | 50 | 1.28 | 25.00 | | 22.50 | | 20.00 |
| MF 20*55 | | 55 | 1.16 | 27.50 | | 24.70 | | 22.00 |
| MF 20*60 | 20 | 60 | 1.07 | 30.00 | 32 (314) | 27.00 | 29 (284) | 24.00 |
| MF 20*65 | 11 | 65 | 0.98 | 32.50 | | 29.20 | | 26.00 |
| MF 20*70 | | 70 | 0.91 | 35.00 | | 31.50 | | 28.00 |
| MF 20*75 | | 75 | 0.85 | 37.50 | | 33.70 | | 30.00 |
| MF 20*80 | | 80 | 0.80 | 40.00 | | 36.00 | | 32.00 |
| MF 20*90 | | 90 | 0.71 | 45.00 | | 40.50 | | 36.00 |
| MF 20*100 | | 100 | 0.64 | 50.00 | | 45.00 | | 40.00 |
| MF 20*125 | | 125 | 0.51 | 62.50 | | 56.20 | | 50.00 |
| MF 20*150 | | 150 | 0.43 | 75.00 | | 67.50 | | 60.00 |
| MF 22*25 | | 25 | 3.20 | 12.50 | | 11.20 | | 10.00 |
| MF 22*30 | | 30 | 2.67 | 15.00 | | 13.50 | | 12.00 |
| MF 22*35 | | 35 | 2.29 | 17.50 | | 15.70 | | 14.00 |
| MF 22*40 | | 40 | 2.00 | 20.00 | | 18.00 | | 16.00 |
| MF 22*45 | | 45 | 1.78 | 22.50 | | 20.20 | | 18.00 |
| MF 22*50 | | 50 | 1.60 | 25.00 | | 22.50 | | 20.00 |
| MF 22*55 | | 55 | 1.46 | 27.50 | | 24.70 | | 22.00 |
| MF 22*60 | 22 | 60 | 1.33 | 30.00 | 40 (392) | 27.00 | 36 (353) | 24.00 |
| MF 22*65 | 11 | 65 | 1.23 | 32.50 | | 29.20 | | 26.00 |
| MF 22*70 | | 70 | 1.14 | 35.00 | | 31.50 | | 28.00 |
| MF 22*75 | | 75 | 1.07 | 37.50 | | 33.70 | | 30.00 |
| MF 22*80 | | 80 | 1.00 | 40.00 | | 36.00 | | 32.00 |
| MF 22*90 | | 90 | 0.89 | 45.00 | | 40.50 | | 36.00 |
| MF 22*100 | | 100 | 0.80 | 50.00 | | 45.00 | | 40.00 |
| MF 22*125 | | 125 | 0.64 | 62.50 | | 56.20 | | 50.00 |
| MF 22*150 | | 150 | 0.53 | 75.00 | | 67.50 | | 60.00 |
| MF 25*25 | | 25 | 4.00 | 12.50 | | 11.20 | | 10.00 |
| MF 25*30 | | 30 | 3.33 | 15.00 | | 13.50 | | 12.00 |
| MF 25*35 | | 35 | 2.85 | 17.50 | | 15.70 | | 14.00 |
| MF 25*40 | | 40 | 2.50 | 20.00 | | 18.00 | | 16.00 |
| MF 25*45 | | 45 | 2.22 | 22.50 | | 20.20 | | 18.00 |
| MF 25*50 | | 50 | 2.00 | 25.00 | | 22.50 | | 20.00 |
| MF 25*55 | | 55 | 1.82 | 27.50 | | 24.70 | | 22.00 |
| MF 25*60 | | 60 | 1.67 | 30.00 | | 27.00 | | 24.00 |
| MF 25*65 | 25 | 65 | 1.54 | 32.50 | 50 (450) | 29.20 | 45 (441) | 26.00 |
| MF 25*70 | 13.5 | 70 | 1.43 | 35.00 | | 31.50 | | 28.00 |
| MF 25*75 | | 75 | 1.33 | 37.50 | | 33.70 | | 30.00 |
| MF 25*80 | | 80 | 1.25 | 40.00 | | 36.00 | | 32.00 |
| MF 25*90 | | 90 | 1.11 | 45.00 | | 40.50 | | 36.00 |
| MF 25*100 | | 100 | 1.00 | 50.00 | | 45.00 | | 40.00 |
| MF 25*125 | | 125 | 0.80 | 62.50 | | 56.20 | | 50.00 |
| MF 25*150 | | 150 | 0.67 | 75.00 | | 67.50 | | 60.00 |
| MF 25*175 | | 175 | 0.57 | 87.50 | | 78.70 | | 70.00 |
| MF 27*25 | | 25 | 4.80 | 12.50 | | 11.20 | | 10.00 |
| MF 27*30 | | 30 | 4.00 | 15.00 | | 13.50 | | 12.00 |
| MF 27*35 | | 35 | 3.43 | 17.50 | | 15.70 | | 14.00 |
| MF 27*40 | | 40 | 3.00 | 20.00 | | 18.00 | | 16.00 |
| MF 27*45 | | 45 | 2.67 | 22.50 | | 20.20 | | 18.00 |
| MF 27*50 | | 50 | 2.40 | 25.00 | | 22.50 | | 20.00 |
| MF 27*55 | | 55 | 2.18 | 27.50 | | 24.70 | | 22.00 |
| MF 27*60 | | 60 | 2.00 | 30.00 | | 27.00 | | 24.00 |
| MF 27*65 | 27 | 65 | 1.85 | 32.50 | 60 (588) | 29.20 | 54 (530) | 26.00 |
| MF 27*70 | 13.5 | 70 | 1.71 | 35.00 | | 31.50 | | 28.00 |
| MF 27*75 | | 75 | 1.60 | 37.50 | | 33.70 | | 30.00 |
| MF 27*80 | | 80 | 1.50 | 40.00 | | 36.00 | | 32.00 |
| MF 27*90 | | 90 | 1.33 | 45.00 | | 40.50 | | 36.00 |
| MF 27*100 | | 100 | 1.20 | 50.00 | | 45.00 | | 40.00 |
| MF 27*125 | | 125 | 0.96 | 62.50 | | 56.20 | | 50.00 |
| MF 27*150 | | 150 | 0.80 | 75.00 | | 67.50 | | 60.00 |
| MF 27*175 | | 175 | 0.69 | 87.50 | | 78.70 | | 70.00 |
| MF 30*25 | | 25 | 5.80 | 12.50 | | 11.20 | | 10.00 |
| MF 30*30 | | 30 | 4.80 | 15.00 | | 13.50 | | 12.00 |
| MF 30*35 | | 35 | 4.13 | 17.50 | | 15.70 | | 14.00 |
| MF 30*40 | | 40 | 3.60 | 20.00 | | 18.00 | | 16.00 |
| MF 30*45 | | 45 | 3.21 | 22.50 | | 20.20 | | 18.00 |
| MF 30*50 | | 50 | 2.88 | 25.00 | | 22.50 | | 20.00 |
| MF 30*55 | | 55 | 2.63 | 27.50 | | 24.70 | | 22.00 |

| | | | | | | | | |
|-----------|----|-----|------|--------|-------|------------|------------|--------|
| MF 30*60 | | 60 | 2.40 | 30.00 | | 27.00 | | 24.00 |
| MF 30*65 | 30 | 16 | 65 | 2.22 | 32.50 | 72 (706) | 29.20 | 26.00 |
| MF 30*70 | | 70 | 2.05 | 35.00 | | 31.50 | 65 (637) | 28.00 |
| MF 30*75 | | 75 | 1.93 | 37.50 | | 33.70 | | 30.00 |
| MF 30*80 | | 80 | 1.80 | 40.00 | | 36.00 | | 32.00 |
| MF 30*90 | | 90 | 1.60 | 45.00 | | 40.50 | | 36.00 |
| MF 30*100 | | 100 | 1.44 | 50.00 | | 45.00 | | 40.00 |
| MF 30*125 | | 125 | 1.15 | 62.50 | | 56.20 | | 50.00 |
| MF 30*150 | | 150 | 0.96 | 75.00 | | 67.50 | | 60.00 |
| MF 30*175 | | 175 | 0.82 | 87.50 | | 78.70 | | 70.00 |
| MF 30*200 | | 200 | 0.72 | 100.00 | | 90.00 | | 80.00 |
| MF 35*40 | | 40 | 4.90 | 20.00 | | 18.00 | | 16.00 |
| MF 35*45 | | 45 | 4.36 | 22.50 | | 20.20 | | 18.00 |
| MF 35*50 | | 50 | 3.92 | 25.00 | | 22.50 | | 20.00 |
| MF 35*55 | | 55 | 3.56 | 27.50 | | 24.70 | | 22.00 |
| MF 35*60 | | 60 | 3.26 | 30.00 | | 27.00 | | 24.00 |
| MF 35*65 | | 65 | 3.02 | 32.50 | | 29.20 | | 26.00 |
| MF 35*70 | | 70 | 2.80 | 35.00 | | 31.50 | | 28.00 |
| MF 35*75 | 35 | 19 | 75 | 2.61 | 37.50 | 98 (961) | 33.70 | 30.00 |
| MF 35*80 | | 80 | 2.45 | 40.00 | | 36.00 | 88 (963) | 32.00 |
| MF 35*90 | | 90 | 2.17 | 45.00 | | 40.50 | | 36.00 |
| MF 35*100 | | 100 | 1.96 | 50.00 | | 45.00 | | 40.00 |
| MF 35*125 | | 125 | 1.57 | 62.50 | | 56.20 | | 50.00 |
| MF 35*150 | | 150 | 1.30 | 75.00 | | 67.50 | | 60.00 |
| MF 35*175 | | 175 | 1.12 | 87.50 | | 78.70 | | 70.00 |
| MF 35*200 | | 200 | 0.98 | 100.00 | | 90.00 | | 80.00 |
| MF 40*40 | | 40 | 6.38 | 20.00 | | 18.00 | | 16.00 |
| MF 40*50 | | 50 | 5.12 | 25.00 | | 22.50 | | 20.00 |
| MF 40*60 | | 60 | 4.26 | 30.00 | | 27.00 | | 24.00 |
| MF 40*70 | | 70 | 3.65 | 35.00 | | 31.50 | | 28.00 |
| MF 40*80 | | 80 | 3.20 | 40.00 | | 36.00 | | 32.00 |
| MF 40*90 | | 90 | 2.84 | 45.00 | | 40.50 | | 36.00 |
| MF 40*100 | 40 | 22 | 100 | 2.56 | 50.00 | 128 (1255) | 45.00 | 40.00 |
| MF 40*125 | | 125 | 2.04 | 62.50 | | 56.20 | 115 (1128) | 50.00 |
| MF 40*150 | | 150 | 1.70 | 75.00 | | 67.50 | | 60.00 |
| MF 40*175 | | 175 | 1.46 | 87.50 | | 78.70 | | 70.00 |
| MF 40*200 | | 200 | 1.28 | 100.00 | | 90.00 | | 80.00 |
| MF 40*250 | | 250 | 1.02 | 125.00 | | 112.50 | | 100.00 |
| MF 50*50 | | 50 | 8.00 | 25.00 | | 22.50 | | 20.00 |
| MF 50*60 | | 60 | 6.66 | 30.00 | | 27.00 | | 24.00 |
| MF 50*70 | | 70 | 5.71 | 35.00 | | 31.50 | | 28.00 |
| MF 50*80 | | 80 | 5.00 | 40.00 | | 36.00 | | 32.00 |
| MF 50*90 | | 90 | 4.44 | 45.00 | | 40.50 | | 36.00 |
| MF 50*100 | | 100 | 4.00 | 50.00 | | 45.00 | | 40.00 |
| MF 50*125 | | 125 | 3.20 | 62.50 | | 56.20 | | 50.00 |
| MF 50*150 | 50 | 25 | 150 | 2.66 | 75.00 | 200 (1961) | 67.50 | 60.00 |
| MF 50*175 | | 175 | 2.28 | 87.50 | | 78.70 | 180 (1765) | 70.00 |
| MF 50*200 | | 200 | 2.00 | 100.00 | | 90.00 | | 80.00 |
| MF 50*250 | | 250 | 1.60 | 125.00 | | 112.50 | | 100.00 |
| MF 50*300 | | 300 | 1.33 | 150.00 | | 135.00 | | 120.00 |
| MF 50*350 | | 350 | 1.14 | 175.00 | | 157.50 | | 140.00 |
| MF 50*400 | | 400 | 1.00 | 200.00 | | 180.00 | | 160.00 |
| MF 50*450 | | 450 | 0.89 | 225.00 | | 202.50 | | 180.00 |
| MF 50*500 | | 500 | 0.80 | 250.00 | | 225.00 | | 200.00 |
| MF 60*60 | | 60 | 9.59 | 30.00 | | 27.00 | | 24.00 |
| MF 60*70 | | 70 | 8.22 | 35.00 | | 31.50 | | 28.00 |
| MF 60*80 | | 80 | 7.19 | 40.00 | | 36.00 | | 32.00 |
| MF 60*90 | | 90 | 6.40 | 45.00 | | 40.50 | | 36.00 |
| MF 60*100 | | 100 | 5.76 | 50.00 | | 45.00 | | 40.00 |
| MF 60*125 | | 125 | 4.60 | 62.50 | | 56.20 | | 50.00 |
| MF 60*150 | | 150 | 3.84 | 75.00 | | 67.50 | | 60.00 |
| MF 60*175 | 60 | 33 | 175 | 3.29 | 87.50 | 288 (2820) | 78.70 | 70.00 |
| MF 60*200 | | 200 | 2.88 | 100.00 | | 90.00 | 259 (2540) | 80.00 |
| MF 60*250 | | 250 | 2.30 | 125.00 | | 112.50 | | 100.00 |
| MF 60*300 | | 300 | 1.92 | 150.00 | | 135.00 | | 120.00 |
| MF 60*350 | | 350 | 1.65 | 175.00 | | 157.50 | | 140.00 |
| MF 60*400 | | 400 | 1.44 | 200.00 | | 180.00 | | 160.00 |
| MF 60*450 | | 450 | 1.28 | 225.00 | | 202.50 | | 180.00 |
| MF 60*500 | | 500 | 1.15 | 250.00 | | 225.00 | | 200.00 |

| MSC | | 轻负荷/Light Load | | | | | | 蓝色/blue | | | |
|----------------------|--------------------|-----------------------------|-------------------------------|------------------------------------|-------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|--|
| 型号 Part Number | 外径 Dia. (mm) | 内径 Inner Dia. (mm) | 自由长 Free Length (mm) | 弹簧定数 Constant 定数 (kgf/mm) | 自由长 X 40% | | 自由长 X 36% | | 自由长 X 32% | | |
| | | | | | Free Length X 50% | 荷重 Load kgf (N) | Free Length X 45% | 荷重 Load kgf (N) | Free Length X 32% | 荷重 Load kgf (N) | |
| ML 8*10 | | | 10 | 2.50 | 4.00 | | 3.60 | | 3.20 | | |
| ML 8*15 | | | 15 | 1.67 | 6.00 | | 5.40 | | 4.80 | | |
| ML 8*20 | | | 20 | 1.25 | 8.00 | | 7.20 | | 6.40 | | |
| ML 8*25 | | | 25 | 1.00 | 10.00 | | 9.00 | | 8.00 | | |
| ML 8*30 | | | 30 | 0.83 | 12.00 | | 10.80 | | 9.60 | | |
| ML 8*35 | 8 | 4 | 35 | 0.71 | 14.00 | 10(98.1) | 12.60 | 9(88.3) | 11.20 | 8(78.5) | |
| ML 8*40 | | | 40 | 0.63 | 16.00 | | 14.40 | | 12.80 | | |
| ML 8*45 | | | 45 | 0.56 | 18.00 | | 16.20 | | 14.40 | | |
| ML 8*50 | | | 50 | 0.50 | 20.00 | | 18.00 | | 16.00 | | |
| ML 8*55 | | | 55 | 0.46 | 22.00 | | 19.80 | | 17.60 | | |
| ML 8*60 | | | 60 | 0.42 | 24.00 | | 21.60 | | 19.20 | | |
| ML 10*20 | | | 20 | 1.81 | 8.00 | | 7.20 | | 6.40 | | |
| ML 10*25 | | | 25 | 1.45 | 10.00 | | 9.00 | | 8.00 | | |
| ML 10*30 | | | 30 | 1.21 | 12.00 | | 10.80 | | 9.60 | | |
| ML 10*35 | | | 35 | 1.03 | 14.00 | | 12.60 | | 11.20 | | |
| ML 10*40 | | | 40 | 0.90 | 16.00 | | 14.40 | | 12.80 | | |
| ML 10*45 | | | 45 | 0.80 | 18.00 | | 16.20 | | 14.40 | | |
| ML 10*50 | 10 | 5 | 50 | 0.73 | 20.00 | 14.5(142.2) | 18.00 | 13(127.5) | 16.00 | 11.5(112.8) | |
| ML 10*55 | | | 55 | 0.66 | 22.00 | | 19.80 | | 17.60 | | |
| ML 10*60 | | | 60 | 0.60 | 24.00 | | 21.60 | | 19.20 | | |
| ML 10*65 | | | 65 | 0.55 | 26.00 | | 23.40 | | 20.80 | | |
| ML 10*70 | | | 70 | 0.51 | 28.00 | | 25.20 | | 22.40 | | |
| ML 10*75 | | | 75 | 0.48 | 30.00 | | 27.00 | | 24.00 | | |
| ML 10*80 | | | 80 | 0.45 | 32.00 | | 28.80 | | 25.60 | | |
| ML 12*20 | | | 20 | 2.63 | 8.00 | | 7.20 | | 6.40 | | |
| ML 12*25 | | | 25 | 2.10 | 10.00 | | 9.00 | | 8.00 | | |
| ML 12*30 | | | 30 | 1.75 | 12.00 | | 10.80 | | 9.60 | | |
| ML 12*35 | | | 35 | 1.50 | 14.00 | | 12.60 | | 11.20 | | |
| ML 12*40 | | | 40 | 1.32 | 16.00 | | 14.40 | | 12.80 | | |
| ML 12*45 | | | 45 | 1.17 | 18.00 | | 16.20 | | 14.40 | | |
| ML 12*50 | 12 | 6 | 50 | 1.05 | 20.00 | 21(206) | 18.00 | 19(186.3) | 16.00 | 17(166.7) | |
| ML 12*55 | | | 55 | 0.96 | 22.00 | | 19.80 | | 17.60 | | |
| ML 12*60 | | | 60 | 0.88 | 24.00 | | 21.60 | | 19.20 | | |
| ML 12*65 | | | 65 | 0.81 | 26.00 | | 23.40 | | 20.80 | | |
| ML 12*70 | | | 70 | 0.75 | 28.00 | | 25.20 | | 22.40 | | |
| ML 12*75 | | | 75 | 0.70 | 30.00 | | 27.00 | | 24.00 | | |
| ML 12*80 | | | 80 | 0.66 | 32.00 | | 28.80 | | 25.60 | | |
| ML 14*25 | | | 25 | 2.80 | 10.00 | | 9.00 | | 8.00 | | |
| ML 14*30 | | | 30 | 2.34 | 12.00 | | 10.80 | | 9.60 | | |
| ML 14*35 | | | 35 | 2.00 | 14.00 | | 12.60 | | 11.20 | | |
| ML 14*40 | | | 40 | 1.75 | 16.00 | | 14.40 | | 12.80 | | |
| ML 14*45 | | | 45 | 1.56 | 18.00 | | 16.20 | | 14.40 | | |
| ML 14*50 | | | 50 | 1.40 | 20.00 | | 18.00 | | 16.00 | | |
| ML 14*55 | 14 | 7 | 55 | 1.27 | 22.00 | 28(275) | 19.80 | 25(245) | 17.60 | 22(216) | |
| ML 14*60 | | | 60 | 1.17 | 24.00 | | 21.60 | | 19.20 | | |
| ML 14*65 | | | 65 | 1.08 | 26.00 | | 23.40 | | 20.80 | | |
| ML 14*70 | | | 70 | 1.00 | 28.00 | | 25.20 | | 22.40 | | |
| ML 14*75 | | | 75 | 0.93 | 30.00 | | 27.00 | | 24.00 | | |
| ML 14*80 | | | 80 | 0.87 | 32.00 | | 28.80 | | 25.60 | | |
| ML 14*90 | | | 90 | 0.77 | 36.00 | | 32.40 | | 28.80 | | |
| ML 16*25 | | | 25 | 3.50 | 10.00 | | 9.00 | | 8.00 | | |
| ML 16*30 | | | 30 | 2.92 | 12.00 | | 10.80 | | 9.60 | | |
| ML 16*35 | | | 35 | 2.50 | 14.00 | | 12.60 | | 11.20 | | |
| ML 16*40 | | | 40 | 2.19 | 16.00 | | 14.40 | | 12.80 | | |
| ML 16*45 | | | 45 | 1.95 | 18.00 | | 16.20 | | 14.40 | | |
| ML 16*50 | | | 50 | 1.75 | 20.00 | | 18.00 | | 16.00 | | |
| ML 16*55 | 16 | 8 | 55 | 1.60 | 22.00 | 35(343) | 19.80 | 32(314) | 17.60 | 28(275) | |
| ML 16*60 | | | 60 | 1.46 | 24.00 | | 21.60 | | 19.20 | | |
| ML 16*65 | | | 65 | 1.35 | 26.00 | | 23.40 | | 20.80 | | |
| ML 16*70 | | | 70 | 1.25 | 28.00 | | 25.20 | | 22.40 | | |

| | | | | | | | | |
|-----------|----|------|-------|-------|-------|----------|----------|-------|
| ML 16*75 | | 75 | 1.17 | 30.00 | | 27.00 | | 24.00 |
| ML 16*80 | | 80 | 1.10 | 32.00 | | 28.80 | | 25.60 |
| ML 16*90 | | 90 | 0.98 | 36.00 | | 32.40 | | 28.80 |
| ML 16*100 | | 100 | 0.88 | 40.00 | | 36.00 | | 32.00 |
| ML 18*25 | | 25 | 4.30 | 10.00 | | 9.00 | | 8.00 |
| ML 18*30 | | 30 | 3.58 | 12.00 | | 10.80 | | 9.60 |
| ML 18*35 | | 35 | 3.07 | 14.00 | | 12.60 | | 11.20 |
| ML 18*40 | | 40 | 2.69 | 16.00 | | 14.40 | | 12.80 |
| ML 18*45 | | 45 | 2.39 | 18.00 | | 16.20 | | 14.40 |
| ML 18*50 | | 50 | 2.15 | 20.00 | | 18.00 | | 16.00 |
| ML 18*55 | 18 | 9 | 55 | 1.96 | 22.00 | 43 (422) | 19.80 | 17.60 |
| ML 18*60 | | 60 | 1.79 | 24.00 | | 21.60 | 39 (382) | 19.20 |
| ML 18*65 | | 65 | 1.66 | 26.00 | | 23.40 | | 20.80 |
| ML 18*70 | | 70 | 1.54 | 28.00 | | 25.20 | | 22.40 |
| ML 18*75 | | 75 | 1.44 | 30.00 | | 27.00 | | 24.00 |
| ML 18*80 | | 80 | 1.35 | 32.00 | | 28.80 | | 25.60 |
| ML 18*90 | | 90 | 1.20 | 36.00 | | 32.40 | | 28.80 |
| ML 18*100 | | 100 | 1.07 | 40.00 | | 36.00 | | 32.00 |
| ML 20*25 | | 25 | 5.40 | 10.00 | | 9.00 | | 8.00 |
| ML 20*30 | | 30 | 4.50 | 12.00 | | 10.80 | | 9.60 |
| ML 20*35 | | 35 | 3.86 | 14.00 | | 12.60 | | 11.20 |
| ML 20*40 | | 40 | 3.38 | 16.00 | | 14.40 | | 12.80 |
| ML 20*45 | | 45 | 3.00 | 18.00 | | 16.20 | | 14.40 |
| ML 20*50 | | 50 | 2.70 | 20.00 | | 18.00 | | 16.00 |
| ML 20*55 | | 55 | 2.45 | 22.00 | | 19.80 | | 17.60 |
| ML 20*60 | | 60 | 2.25 | 24.00 | | 21.60 | | 19.20 |
| ML 20*65 | 20 | 10 | 65 | 2.08 | 26.00 | 54 (530) | 23.40 | 20.80 |
| ML 20*70 | | 70 | 1.93 | 28.00 | | 25.20 | 49 (481) | 22.40 |
| ML 20*75 | | 75 | 1.80 | 30.00 | | 27.00 | | 24.00 |
| ML 20*80 | | 80 | 1.69 | 32.00 | | 28.80 | | 25.60 |
| ML 20*90 | | 90 | 1.50 | 36.00 | | 32.40 | | 28.80 |
| ML 20*100 | | 100 | 1.35 | 40.00 | | 36.00 | | 32.00 |
| ML 20*125 | | 125 | 1.08 | 50.00 | | 45.00 | | 41.00 |
| ML 20*150 | | 150 | 0.90 | 60.00 | | 54.00 | | 50.00 |
| | | 300 | | | | | | |
| ML 22*25 | | 25 | 6.70 | 10.00 | | 9.00 | | 8.00 |
| ML 22*30 | | 30 | 5.60 | 12.00 | | 10.80 | | 9.60 |
| ML 22*35 | | 35 | 4.80 | 14.00 | | 12.60 | | 11.20 |
| ML 22*40 | | 40 | 4.20 | 16.00 | | 14.40 | | 12.80 |
| ML 22*45 | | 45 | 3.72 | 18.00 | | 16.20 | | 14.40 |
| ML 22*50 | | 50 | 3.35 | 20.00 | | 18.00 | | 16.00 |
| ML 22*55 | | 55 | 3.05 | 22.00 | | 19.80 | | 17.60 |
| ML 22*60 | 22 | 11 | 60 | 2.80 | 24.00 | 67 (657) | 21.60 | 19.20 |
| ML 22*65 | | 65 | 2.58 | 26.00 | | 23.40 | 60 (588) | 20.80 |
| ML 22*70 | | 70 | 2.40 | 28.00 | | 25.20 | | 22.40 |
| ML 22*75 | | 75 | 2.23 | 30.00 | | 27.00 | | 24.00 |
| ML 22*80 | | 80 | 2.10 | 32.00 | | 28.80 | | 25.60 |
| ML 22*90 | | 90 | 1.86 | 36.00 | | 32.40 | | 28.80 |
| ML 22*100 | | 100 | 1.68 | 40.00 | | 36.00 | | 32.00 |
| ML 22*125 | | 125 | 1.34 | 50.00 | | 45.00 | | 40.00 |
| ML 22*150 | | 150 | 1.12 | 60.00 | | 54.00 | | 48.00 |
| ML 25*25 | | 25 | 8.40 | 10.00 | | 9.00 | | 8.00 |
| ML 25*30 | | 30 | 7.00 | 12.00 | | 10.80 | | 9.60 |
| ML 25*35 | | 35 | 6.00 | 14.00 | | 12.60 | | 11.20 |
| ML 25*40 | | 40 | 5.25 | 16.00 | | 14.40 | | 12.80 |
| ML 25*45 | | 45 | 4.67 | 18.00 | | 16.20 | | 14.40 |
| ML 25*50 | | 50 | 4.20 | 20.00 | | 18.00 | | 16.00 |
| ML 25*55 | | 55 | 3.82 | 22.00 | | 19.80 | | 17.60 |
| ML 25*60 | | 60 | 3.50 | 24.00 | | 21.60 | | 19.20 |
| ML 25*65 | 25 | 12.5 | 65 | 3.23 | 26.00 | 84 (824) | 23.40 | 20.80 |
| ML 25*70 | | 70 | 3.00 | 28.00 | | 25.20 | 76 (745) | 22.40 |
| ML 25*75 | | 75 | 2.80 | 30.00 | | 27.00 | | 24.00 |
| ML 25*80 | | 80 | 2.63 | 32.00 | | 28.80 | | 25.60 |
| ML 25*90 | | 90 | 2.33 | 36.00 | | 32.40 | | 28.80 |
| ML 25*100 | | 100 | 2.10 | 40.00 | | 36.00 | | 32.00 |
| ML 25*125 | | 125 | 1.68 | 50.00 | | 45.00 | | 40.00 |
| ML 25*150 | | 150 | 1.40 | 60.00 | | 54.00 | | 48.00 |
| ML 25*175 | | 175 | 1.20 | 70.00 | | 63.00 | | 56.00 |
| ML 27*25 | | 25 | 10.00 | 10.00 | | 9.00 | | 8.00 |

| | | | | | | | | | |
|-----------|----|------|-----|-------|--------|-----------|-------|-----------|-------|
| ML 27*30 | | | 30 | 8.33 | 12.00 | | 10.80 | | 9.60 |
| ML 27*35 | | | 35 | 7.14 | 14.00 | | 12.60 | | 11.20 |
| ML 27*40 | | | 40 | 6.25 | 16.00 | | 14.40 | | 12.80 |
| ML 27*45 | | | 45 | 5.56 | 18.00 | | 16.20 | | 14.40 |
| ML 27*50 | | | 50 | 5.00 | 20.00 | | 18.00 | | 16.00 |
| ML 27*55 | | | 55 | 4.55 | 22.00 | | 19.80 | | 17.60 |
| ML 27*60 | | | 60 | 4.17 | 24.00 | | 21.60 | | 19.20 |
| ML 27*65 | 27 | 13.5 | 65 | 3.85 | 26.00 | 100(981) | 23.40 | 90(883) | 20.80 |
| ML 27*70 | | | 70 | 3.57 | 28.00 | | 25.20 | | 22.40 |
| ML 27*75 | | | 75 | 3.33 | 30.00 | | 27.00 | | 24.00 |
| ML 27*80 | | | 80 | 3.13 | 32.00 | | 28.80 | | 25.60 |
| ML 27*90 | | | 90 | 2.78 | 36.00 | | 32.40 | | 28.80 |
| ML 27*100 | | | 100 | 2.50 | 40.00 | | 36.00 | | 32.00 |
| ML 27*125 | | | 125 | 2.00 | 50.00 | | 45.00 | | 40.00 |
| ML 27*150 | | | 150 | 1.67 | 60.00 | | 54.00 | | 48.00 |
| ML 27*175 | | | 175 | 1.43 | 70.00 | | 63.00 | | 56.00 |
| ML 30*25 | | | 25 | 12.11 | 10.00 | | 9.00 | | 8.00 |
| ML 30*30 | | | 30 | 10.08 | 12.00 | | 10.80 | | 9.60 |
| ML 30*35 | | | 35 | 8.65 | 14.00 | | 12.60 | | 11.20 |
| ML 30*40 | | | 40 | 7.56 | 16.00 | | 14.40 | | 12.80 |
| ML 30*45 | | | 45 | 6.73 | 18.00 | | 16.20 | | 14.40 |
| ML 30*50 | | | 50 | 6.05 | 20.00 | | 18.00 | | 16.00 |
| ML 30*55 | | | 55 | 5.50 | 22.00 | | 19.80 | | 17.60 |
| ML 30*60 | | | 60 | 5.04 | 24.00 | | 21.60 | | 19.20 |
| ML 30*65 | 30 | 15 | 65 | 4.65 | 26.00 | 121(1187) | 23.40 | 109(1069) | 20.80 |
| ML 30*70 | | | 70 | 4.32 | 28.00 | | 25.20 | | 22.40 |
| ML 30*75 | | | 75 | 4.03 | 30.00 | | 27.00 | | 24.00 |
| ML 30*80 | | | 80 | 3.78 | 32.00 | | 28.80 | | 25.60 |
| ML 30*90 | | | 90 | 3.36 | 36.00 | | 32.40 | | 28.80 |
| ML 30*100 | | | 100 | 3.02 | 40.00 | | 36.00 | | 32.00 |
| ML 30*125 | | | 125 | 2.42 | 50.00 | | 45.00 | | 40.00 |
| ML 30*150 | | | 150 | 2.01 | 60.00 | | 54.00 | | 48.00 |
| ML 30*175 | | | 175 | 1.72 | 70.00 | | 63.00 | | 56.00 |
| ML 30*200 | | | 200 | 1.51 | 80.00 | | 72.00 | | 64.00 |
| ML 35*40 | | | 40 | 10.31 | 16.00 | | 14.40 | | 12.80 |
| ML 35*45 | | | 45 | 9.17 | 18.00 | | 16.20 | | 14.40 |
| ML 35*50 | | | 50 | 8.25 | 20.00 | | 18.00 | | 16.00 |
| ML 35*55 | | | 55 | 7.50 | 22.00 | | 19.80 | | 17.60 |
| ML 35*60 | | | 60 | 6.87 | 24.00 | | 21.60 | | 19.20 |
| ML 35*65 | | | 65 | 6.35 | 26.00 | | 23.40 | | 20.80 |
| ML 35*70 | | | 70 | 5.89 | 28.00 | | 25.20 | | 22.40 |
| ML 35*75 | 35 | 17.5 | 75 | 5.50 | 30.00 | 165(1618) | 27.00 | 149(1461) | 24.00 |
| ML 35*80 | | | 80 | 5.15 | 32.00 | | 28.80 | | 25.60 |
| ML 35*90 | | | 90 | 4.58 | 36.00 | | 32.40 | | 28.80 |
| ML 35*100 | | | 100 | 4.12 | 40.00 | | 36.00 | | 32.00 |
| ML 35*125 | | | 125 | 3.30 | 50.00 | | 45.00 | | 40.00 |
| ML 35*150 | | | 150 | 2.75 | 60.00 | | 54.00 | | 48.00 |
| ML 35*175 | | | 175 | 2.35 | 70.00 | | 63.00 | | 56.00 |
| ML 35*200 | | | 200 | 2.06 | 80.00 | | 72.00 | | 64.00 |
| ML 40*40 | | | 40 | 13.50 | 16.00 | | 14.40 | | 12.80 |
| ML 40*50 | | | 50 | 10.80 | 20.00 | | 18.00 | | 16.00 |
| ML 40*60 | | | 60 | 9.00 | 24.00 | | 21.60 | | 19.20 |
| ML 40*70 | | | 70 | 7.71 | 28.00 | | 25.20 | | 22.40 |
| ML 40*80 | | | 80 | 6.75 | 32.00 | | 28.80 | | 25.60 |
| ML 40*90 | | | 90 | 6.00 | 36.00 | | 32.40 | | 28.80 |
| ML 40*100 | 40 | 20 | 100 | 5.40 | 40.00 | 216(2120) | 36.00 | 194(1903) | 32.00 |
| ML 40*125 | | | 125 | 4.32 | 50.00 | | 45.00 | | 40.00 |
| ML 40*150 | | | 150 | 3.60 | 60.00 | | 54.00 | | 48.00 |
| ML 40*175 | | | 175 | 3.08 | 70.00 | | 63.00 | | 56.00 |
| ML 40*200 | | | 200 | 2.70 | 80.00 | | 72.00 | | 64.00 |
| ML 40*250 | | | 250 | 2.16 | 100.00 | | 90.00 | | 80.00 |
| ML 50*50 | | | 50 | 16.89 | 20.00 | | 18.00 | | 16.00 |
| ML 50*60 | | | 60 | 14.08 | 24.00 | | 21.60 | | 19.20 |
| ML 50*70 | | | 70 | 12.07 | 28.00 | | 25.20 | | 22.40 |
| ML 50*80 | | | 80 | 10.56 | 32.00 | | 28.80 | | 25.60 |
| ML 50*90 | | | 90 | 9.38 | 36.00 | | 32.40 | | 28.80 |
| ML 50*100 | | | 100 | 8.45 | 40.00 | | 36.00 | | 32.00 |
| ML 50*125 | | | 125 | 6.76 | 50.00 | | 45.00 | | 40.00 |
| ML 50*150 | 50 | 25 | 150 | 5.63 | 60.00 | 228(2210) | 54.00 | 204(2080) | 48.00 |

| | | | | | | | | | | |
|-----------|----|----|-----|-------|--------|-----------|--------|-----------|--------|-----------|
| ML 50*175 | 50 | 25 | 175 | 4.82 | 70.00 | 338(3310) | 63.00 | 304(2980) | 56.00 | 270(2650) |
| ML 50*200 | | | 200 | 4.22 | 80.00 | | 72.00 | | 64.00 | |
| ML 50*250 | | | 250 | 3.38 | 100.00 | | 90.00 | | 80.00 | |
| ML 50*300 | | | 300 | 2.81 | 120.00 | | 108.00 | | 96.00 | |
| ML 50*350 | | | 350 | 2.41 | 140.00 | | 126.00 | | 112.00 | |
| ML 50*400 | | | 400 | 2.11 | 160.00 | | 144.00 | | 128.00 | |
| ML 50*450 | | | 450 | 1.88 | 180.00 | | 162.00 | | 144.00 | |
| ML 50*500 | | | 500 | 1.69 | 200.00 | | 180.00 | | 160.00 | |
| ML 60*60 | | | 60 | 20.25 | 24.00 | | 21.60 | | 19.20 | |
| ML 60*70 | | | 70 | 17.35 | 28.00 | | 25.20 | | 22.40 | |
| ML 60*80 | | | 80 | 15.18 | 32.00 | | 28.80 | | 25.60 | |
| ML 60*90 | | | 90 | 13.50 | 36.00 | | 32.40 | | 28.80 | |
| ML 60*100 | | | 100 | 12.15 | 40.00 | | 36.00 | | 32.00 | |
| ML 60*125 | | | 125 | 9.72 | 50.00 | | 45.00 | | 40.00 | |
| ML 60*150 | | | 150 | 8.10 | 60.00 | | 54.00 | | 48.00 | |
| ML 60*175 | 60 | 30 | 175 | 6.94 | 70.00 | 486(4770) | 63.00 | 437(4290) | 56.00 | 389(3810) |
| ML 60*200 | | | 200 | 6.07 | 80.00 | | 72.00 | | 64.00 | |
| ML 60*250 | | | 250 | 4.86 | 100.00 | | 90.00 | | 80.00 | |
| ML 60*300 | | | 300 | 4.05 | 120.00 | | 108.00 | | 96.00 | |
| ML 60*350 | | | 350 | 3.47 | 140.00 | | 126.00 | | 112.00 | |
| ML 60*400 | | | 400 | 3.04 | 160.00 | | 144.00 | | 128.00 | |
| ML 60*450 | | | 450 | 2.70 | 180.00 | | 162.00 | | 144.00 | |
| ML 60*500 | | | 500 | 2.43 | 200.00 | | 180.00 | | 160.00 | |

MSC 中负荷/Medium Load 红色/Red

| 型号 Part Number | 外径 Outer Dia. (mm) | 内径 Inner Dia. (mm) | 自由长 Free Length 长度 (mm) | 弹簧定数 Spring Constant 定数 (kgf/mm) | 自由长 X 32% | | 自由长 X 29% | | 自由长 X 26% | |
|----------------------|-----------------------------|-----------------------------|-------------------------------------|--|--|----------------------|--|----------------------|--|----------------------|
| | | | | | Free Length X32 % Deflection 压缩数 (mm) | 荷重 Load kgf(N) | Free Length X 29% Deflection 压缩数 (mm) | 荷重 Load kgf(N) | Free Length X 26% Deflection 压缩数 (mm) | 荷重 Load kgf(N) |
| MM 8*10 | | | 10 | 4.34 | 3.20 | | 2.90 | | 2.6 | |
| MM 8*15 | | | 15 | 2.89 | 4.80 | | 4.30 | | 3.8 | |
| MM 8*20 | | | 20 | 2.17 | 6.40 | | 5.80 | | 5.1 | |
| MM 8*25 | | | 25 | 1.74 | 8.00 | | 7.20 | | 6.4 | |
| MM 8*30 | | | 30 | 1.45 | 9.60 | | 8.60 | | 7.7 | |
| MM 8*35 | 8 | 4 | 35 | 1.24 | 11.20 | 14(137.3) | 10.10 | 12.5(122.5) | 9 | 11(107.9) |
| MM 8*40 | | | 40 | 1.09 | 12.80 | | 11.50 | | 10.2 | |
| MM 8*45 | | | 45 | 0.97 | 14.40 | | 13.00 | | 11.5 | |
| MM 8*50 | | | 50 | 0.87 | 16.00 | | 14.40 | | 12.8 | |
| MM 8*55 | | | 55 | 0.79 | 17.60 | | 15.80 | | 14.1 | |
| MM 8*60 | | | 60 | 0.72 | 19.20 | | 17.30 | | 15.4 | |
| MM 10*20 | | | 20 | 3.13 | 6.40 | | 5.80 | | 5.1 | |
| MM 10*25 | | | 25 | 2.50 | 8.00 | | 7.20 | | 6.4 | |
| MM 10*30 | | | 30 | 2.08 | 9.60 | | 8.60 | | 7.7 | |
| MM 10*35 | | | 35 | 1.78 | 11.20 | | 10.10 | | 9 | |
| MM 10*40 | | | 40 | 1.56 | 12.80 | | 11.50 | | 10.2 | |
| MM 10*45 | | | 45 | 1.38 | 14.40 | | 13.00 | | 11.5 | |
| MM 10*50 | 10 | 5 | 50 | 1.25 | 16.00 | 20(196.1) | 14.40 | 18(176.5) | 12.8 | 16(156.9) |
| MM 10*55 | | | 55 | 1.13 | 17.60 | | 15.80 | | 14.1 | |
| MM 10*60 | | | 60 | 1.04 | 19.20 | | 17.30 | | 15.4 | |
| MM 10*65 | | | 65 | 0.96 | 20.80 | | 18.70 | | 16.60 | |
| MM 10*70 | | | 70 | 0.89 | 22.40 | | 20.20 | | 17.90 | |
| MM 10*75 | | | 75 | 0.83 | 24.00 | | 21.60 | | 19.20 | |
| MM 10*80 | | | 80 | 0.78 | 25.60 | | 23.00 | | 20.50 | |
| MM 12*20 | | | 20 | 4.53 | 6.40 | | 5.80 | | 5.1 | |
| MM 12*25 | | | 25 | 3.62 | 8.00 | | 7.20 | | 6.4 | |
| MM 12*30 | | | 30 | 3.02 | 9.60 | | 8.60 | | 7.7 | |
| MM 12*35 | | | 35 | 2.58 | 11.20 | | 10.10 | | 9 | |
| MM 12*40 | | | 40 | 2.27 | 12.80 | | 11.50 | | 10.2 | |
| MM 12*45 | | | 45 | 2.01 | 14.40 | | 13.00 | | 11.5 | |
| MM 12*50 | 12 | 6 | 50 | 1.81 | 16.00 | 29(284) | 14.40 | 26(255) | 12.8 | |
| MM 12*55 | | | 55 | 1.64 | 17.60 | | 15.80 | | 14.1 | |
| MM 12*60 | | | 60 | 1.51 | 19.20 | | 17.30 | | 15.4 | |
| MM 12*65 | | | 65 | 1.39 | 20.80 | | 18.70 | | 16.60 | |
| MM 12*70 | | | 70 | 1.29 | 22.40 | | 20.20 | | 17.90 | |
| MM 12*75 | | | 75 | 1.20 | 24.00 | | 21.60 | | 19.20 | |

| | | | | | | | | | | |
|-----------|----|-----|-------|-------|-------|---------|-------|---------|------|---------|
| MM 12*80 | | 80 | 1.13 | 25.60 | | 23.00 | | 20.50 | | |
| MM 14*25 | | 25 | 4.87 | 8.00 | | 7.20 | | 6.4 | | |
| MM 14*30 | | 30 | 4.06 | 9.60 | | 8.60 | | 7.7 | | |
| MM 14*35 | | 35 | 3.48 | 11.20 | | 10.10 | | 9 | | |
| MM 14*40 | | 40 | 3.04 | 12.80 | | 11.50 | | 10.2 | | |
| MM 14*45 | | 45 | 2.70 | 14.40 | | 13.00 | | 11.5 | | |
| MM 14*50 | | 50 | 2.43 | 16.00 | | 14.40 | | 12.8 | | |
| MM 14*55 | 14 | 7 | 55 | 2.21 | 17.60 | 39(383) | 15.80 | 35(343) | 14.1 | 31(304) |
| MM 14*60 | | 60 | 2.03 | 19.20 | | 17.30 | | 15.4 | | |
| MM 14*65 | | 65 | 1.87 | 20.80 | | 18.70 | | 16.60 | | |
| MM 14*70 | | 70 | 1.74 | 22.40 | | 20.20 | | 17.90 | | |
| MM 14*75 | | 75 | 1.62 | 24.00 | | 21.60 | | 19.20 | | |
| MM 14*80 | | 80 | 1.52 | 25.60 | | 23.00 | | 20.50 | | |
| MM 14*90 | | 90 | 1.35 | 28.80 | | 25.9 | | 23.00 | | |
| MM 16*25 | | 25 | 6.39 | 8.00 | | 7.20 | | 6.4 | | |
| MM 16*30 | | 30 | 5.32 | 9.60 | | 8.60 | | 7.7 | | |
| MM 16*35 | | 35 | 4.65 | 11.20 | | 10.10 | | 9 | | |
| MM 16*40 | | 40 | 3.98 | 12.80 | | 11.50 | | 10.2 | | |
| MM 16*45 | | 45 | 3.54 | 14.40 | | 13.00 | | 11.5 | | |
| MM 16*50 | | 50 | 3.18 | 16.00 | | 14.40 | | 12.8 | | |
| MM 16*55 | 16 | 8 | 55 | 2.89 | 17.60 | 51(500) | 15.80 | 46(451) | 14.1 | 41(402) |
| MM 16*60 | | 60 | 2.65 | 19.20 | | 17.30 | | 15.4 | | |
| MM 16*65 | | 65 | 2.45 | 20.80 | | 18.70 | | 16.60 | | |
| MM 16*70 | | 70 | 2.27 | 22.40 | | 20.20 | | 17.90 | | |
| MM 16*75 | | 75 | 2.11 | 24.00 | | 21.60 | | 19.20 | | |
| MM 16*80 | | 80 | 1.99 | 25.60 | | 23.00 | | 20.50 | | |
| MM 16*90 | | 90 | 1.77 | 28.80 | | 25.9 | | 23.00 | | |
| MM 16*100 | | 100 | 1.59 | 32.00 | | 28.80 | | 25.60 | | |
| MM 18*25 | | 25 | 8.12 | 8.00 | | 7.20 | | 6.4 | | |
| MM 18*30 | | 30 | 6.77 | 9.60 | | 8.60 | | 7.7 | | |
| MM 18*35 | | 35 | 5.80 | 11.20 | | 10.10 | | 9 | | |
| MM 18*40 | | 40 | 5.07 | 12.80 | | 11.50 | | 10.2 | | |
| MM 18*45 | | 45 | 4.51 | 14.40 | | 13.00 | | 11.5 | | |
| MM 18*50 | | 50 | 4.06 | 16.00 | | 14.40 | | 12.8 | | |
| MM 18*55 | 18 | 9 | 55 | 3.69 | 17.60 | 65(637) | 15.80 | 58(569) | 14.1 | 52(510) |
| MM 18*60 | | 60 | 3.38 | 19.20 | | 17.30 | | 15.4 | | |
| MM 18*65 | | 65 | 3.12 | 20.80 | | 18.70 | | 16.60 | | |
| MM 18*70 | | 70 | 2.90 | 22.40 | | 20.20 | | 17.90 | | |
| MM 18*75 | | 75 | 2.70 | 24.00 | | 21.60 | | 19.20 | | |
| MM 18*80 | | 80 | 2.53 | 25.60 | | 23.00 | | 20.50 | | |
| MM 18*90 | | 90 | 2.25 | 28.80 | | 25.9 | | 23.00 | | |
| MM 18*100 | | 100 | 2.02 | 32.00 | | 28.80 | | 25.60 | | |
| MM 20*25 | | 25 | 10.00 | 8.00 | | 7.20 | | 6.4 | | |
| MM 20*30 | | 30 | 8.33 | 9.60 | | 8.60 | | 7.7 | | |
| MM 20*35 | | 35 | 7.14 | 11.20 | | 10.10 | | 9 | | |
| MM 20*40 | | 40 | 6.25 | 12.80 | | 11.50 | | 10.2 | | |
| MM 20*45 | | 45 | 5.55 | 14.40 | | 13.00 | | 11.5 | | |
| MM 20*50 | | 50 | 5.00 | 16.00 | | 14.40 | | 12.8 | | |
| MM 20*55 | | 55 | 4.54 | 17.60 | | 15.80 | | 14.1 | | |
| MM 20*60 | 20 | 10 | 60 | 4.16 | 19.20 | 80(785) | 17.30 | 72(706) | 15.4 | 64(628) |
| MM 20*65 | | 65 | 3.84 | 20.80 | | 18.70 | | 16.60 | | |
| MM 20*70 | | 70 | 3.57 | 22.40 | | 20.20 | | 17.90 | | |
| MM 20*75 | | 75 | 3.33 | 24.00 | | 21.60 | | 19.20 | | |
| MM 20*80 | | 80 | 3.12 | 25.60 | | 23.00 | | 20.50 | | |
| MM 20*90 | | 90 | 2.77 | 28.80 | | 25.9 | | 23.00 | | |
| MM 20*100 | | 100 | 2.50 | 32.00 | | 28.80 | | 25.60 | | |
| MM 20*125 | | 125 | 2.00 | 40.00 | | 36.00 | | 32.00 | | |
| MM 20*150 | | 150 | 1.67 | 48.00 | | 43.20 | | 38.40 | | |
| MM 22*25 | | 25 | 12.13 | 8.00 | | 7.20 | | 6.4 | | |
| MM 22*30 | | 30 | 10.10 | 9.60 | | 8.60 | | 7.7 | | |
| MM 22*35 | | 35 | 8.65 | 11.20 | | 10.10 | | 9 | | |
| MM 22*40 | | 40 | 7.57 | 12.80 | | 11.50 | | 10.2 | | |
| MM 22*45 | | 45 | 6.74 | 14.40 | | 13.00 | | 11.5 | | |
| MM 22*50 | | 50 | 6.06 | 16.00 | | 14.40 | | 12.8 | | |
| MM 22*55 | | 55 | 5.50 | 17.60 | | 15.80 | | 14.1 | | |
| MM 22*60 | 22 | 11 | 60 | 5.05 | 19.20 | 97(951) | 17.30 | 87(853) | 15.4 | 78(765) |
| MM 22*65 | | 65 | 4.66 | 20.80 | | 18.70 | | 16.60 | | |
| MM 22*70 | | 70 | 4.33 | 22.40 | | 20.20 | | 17.90 | | |
| MM 22*75 | | 75 | 4.04 | 24.00 | | 21.60 | | 19.20 | | |

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|-----------|----|------|-----|-------|-------|-----------|-------|-----------|-------|
| MM 22*80 | | | 80 | 3.78 | 25.60 | | 23.00 | | 20.50 |
| MM 22*90 | | | 90 | 3.36 | 28.80 | | 25.9 | | 23.00 |
| MM 22*100 | | | 100 | 3.03 | 32.00 | | 28.80 | | 25.60 |
| MM 22*125 | | | 125 | 2.42 | 40.00 | | 36.00 | | 32.00 |
| MM 22*150 | | | 150 | 2.01 | 48.00 | | 43.20 | | 38.40 |
| MM 25*25 | | | 25 | 15.63 | 8.00 | | 7.20 | | 6.4 |
| MM 25*30 | | | 30 | 13.02 | 9.60 | | 8.60 | | 7.7 |
| MM 25*35 | | | 35 | 11.20 | 11.20 | | 10.10 | | 9 |
| MM 25*40 | | | 40 | 9.76 | 12.80 | | 11.50 | | 10.2 |
| MM 25*45 | | | 45 | 8.68 | 14.40 | | 13.00 | | 11.5 |
| MM 25*50 | | | 50 | 7.81 | 16.00 | | 14.40 | | 12.8 |
| MM 25*55 | | | 55 | 7.10 | 17.60 | | 15.80 | | 14.1 |
| MM 25*60 | | | 60 | 6.51 | 19.20 | | 17.30 | | 15.4 |
| MM 25*65 | 25 | 12.5 | 65 | 6.00 | 20.80 | 125(1226) | 18.70 | 112(1098) | 16.60 |
| MM 25*70 | | | 70 | 5.58 | 22.40 | | 20.20 | | 17.90 |
| MM 25*75 | | | 75 | 5.21 | 24.00 | | 21.60 | | 19.20 |
| MM 25*80 | | | 80 | 4.88 | 25.60 | | 23.00 | | 20.50 |
| MM 25*90 | | | 90 | 4.34 | 28.80 | | 25.9 | | 23.00 |
| MM 25*100 | | | 100 | 3.90 | 32.00 | | 28.80 | | 25.60 |
| MM 25*125 | | | 125 | 3.12 | 40.00 | | 36.00 | | 32.00 |
| MM 25*150 | | | 150 | 2.60 | 48.00 | | 43.20 | | 38.40 |
| MM 25*175 | | | 175 | 2.23 | 56.00 | | 50.40 | | 44.80 |
| MM 27*25 | | | 25 | 18.25 | 8.00 | | 7.20 | | 6.4 |
| MM 27*30 | | | 30 | 15.20 | 9.60 | | 8.60 | | 7.7 |
| MM 27*35 | | | 35 | 13.04 | 11.20 | | 10.10 | | 9 |
| MM 27*40 | | | 40 | 11.40 | 12.80 | | 11.50 | | 10.2 |
| MM 27*45 | | | 45 | 10.14 | 14.40 | | 13.00 | | 11.5 |
| MM 27*50 | | | 50 | 9.12 | 16.00 | | 14.40 | | 12.8 |
| MM 27*55 | | | 55 | 8.30 | 17.60 | | 15.80 | | 14.1 |
| MM 27*60 | | | 60 | 7.60 | 19.20 | | 17.30 | | 15.4 |
| MM 27*65 | 27 | 13.5 | 65 | 7.00 | 20.80 | 146(1432) | 18.70 | 131(1285) | 16.60 |
| MM 27*70 | | | 70 | 6.51 | 22.40 | | 20.20 | | 17.90 |
| MM 27*75 | | | 75 | 6.08 | 24.00 | | 21.60 | | 19.20 |
| MM 27*80 | | | 80 | 5.70 | 25.60 | | 23.00 | | 20.50 |
| MM 27*90 | | | 90 | 5.06 | 28.80 | | 25.9 | | 23.00 |
| MM 27*100 | | | 100 | 4.56 | 32.00 | | 28.80 | | 25.60 |
| MM 27*125 | | | 125 | 3.65 | 40.00 | | 36.00 | | 32.00 |
| MM 27*150 | | | 150 | 3.04 | 48.00 | | 43.20 | | 38.40 |
| MM 27*175 | | | 175 | 2.61 | 56.00 | | 50.40 | | 44.80 |
| MM 30*25 | | | 25 | 22.50 | 8.00 | | 7.20 | | 6.4 |
| MM 30*30 | | | 30 | 18.75 | 9.60 | | 8.60 | | 7.7 |
| MM 30*35 | | | 35 | 16.10 | 11.20 | | 10.10 | | 9 |
| MM 30*40 | | | 40 | 14.06 | 12.80 | | 11.50 | | 10.2 |
| MM 30*45 | | | 45 | 12.50 | 14.40 | | 13.00 | | 11.5 |
| MM 30*50 | | | 50 | 11.25 | 16.00 | | 14.40 | | 12.8 |
| MM 30*55 | | | 55 | 10.23 | 17.60 | | 15.80 | | 14.1 |
| MM 30*60 | | | 60 | 9.37 | 19.20 | | 17.30 | | 15.4 |
| MM 30*65 | 30 | 15 | 65 | 8.65 | 20.80 | 180(1765) | 18.70 | 161(1579) | 16.60 |
| MM 30*70 | | | 70 | 8.03 | 22.40 | | 20.20 | | 17.90 |
| MM 30*75 | | | 75 | 7.50 | 24.00 | | 21.60 | | 19.20 |
| MM 30*80 | | | 80 | 7.03 | 25.60 | | 23.00 | | 20.50 |
| MM 30*90 | | | 90 | 6.25 | 28.80 | | 25.9 | | 23.00 |
| MM 30*100 | | | 100 | 5.63 | 32.00 | | 28.80 | | 25.60 |
| MM 30*125 | | | 125 | 4.50 | 40.00 | | 36.00 | | 32.00 |
| MM 30*150 | | | 150 | 3.75 | 48.00 | | 43.20 | | 38.40 |
| MM 30*175 | | | 175 | 3.21 | 56.00 | | 50.40 | | 44.80 |
| MM 30*200 | | | 200 | 2.81 | 64.00 | | 57.60 | | 51.20 |
| MM 35*40 | | | 40 | 19.14 | 12.80 | | 11.50 | | 10.2 |
| MM 35*45 | | | 45 | 17.01 | 14.40 | | 13.00 | | 11.5 |
| MM 35*50 | | | 50 | 15.31 | 16.00 | | 14.40 | | 12.8 |
| MM 35*55 | | | 55 | 13.92 | 17.60 | | 15.80 | | 14.1 |
| MM 35*60 | | | 60 | 12.76 | 19.20 | | 17.30 | | 15.4 |
| MM 35*65 | | | 65 | 11.77 | 20.80 | | 18.70 | | 16.60 |
| MM 35*70 | | | 70 | 10.93 | 22.40 | | 20.20 | | 17.90 |
| MM 35*75 | 35 | 17.5 | 75 | 10.20 | 24.00 | 245(2400) | 21.60 | 220(2160) | 19.20 |
| MM 35*80 | | | 80 | 9.57 | 25.60 | | 23.00 | | 20.50 |
| MM 35*90 | | | 90 | 8.50 | 28.80 | | 25.9 | | 23.00 |
| MM 35*100 | | | 100 | 7.65 | 32.00 | | 28.80 | | 25.60 |
| MM 35*125 | | | 125 | 6.12 | 40.00 | | 36.00 | | 32.00 |

| | | | | | | | | | |
|-----------|----|----|-----|-------|-------|------------|-------|------------|------------|
| MM 35*150 | | | 150 | 5.10 | 48.00 | | 43.20 | | 38.40 |
| MM 35*175 | | | 175 | 4.37 | 56.00 | | 50.40 | | 44.80 |
| MM 35*200 | | | 200 | 3.82 | 64.00 | | 57.60 | | 51.20 |
| MM 40*40 | | | 40 | 25.02 | 12.80 | | 11.50 | | 10.20 |
| MM 40*50 | | | 50 | 20.00 | 16.00 | | 14.40 | | 12.80 |
| MM 40*60 | | | 60 | 16.60 | 19.20 | | 17.30 | | 15.40 |
| MM 40*70 | | | 70 | 14.28 | 22.40 | | 20.20 | | 17.90 |
| MM 40*80 | | | 80 | 12.50 | 25.60 | | 23.00 | | 20.50 |
| MM 40*90 | 40 | 20 | 90 | 11.11 | 28.80 | 320 (3140) | 25.90 | 288 (2820) | 256 (2510) |
| MM 40*100 | | | 100 | 10.00 | 32.00 | | 28.80 | | 25.60 |
| MM 40*125 | | | 125 | 8.00 | 40.00 | | 36.00 | | 32.00 |
| MM 40*150 | | | 150 | 6.66 | 48.00 | | 43.20 | | 38.40 |
| MM 40*175 | | | 175 | 5.71 | 56.00 | | 50.40 | | 44.80 |
| MM 40*200 | | | 200 | 5.00 | 64.00 | | 57.60 | | 51.20 |
| MM 40*250 | | | 250 | 4.00 | 80.00 | | 72.00 | | 64.00 |
| MM 50*50 | | | 50 | 31.25 | 16.00 | | 14.40 | | 12.8 |
| MM 50*60 | | | 60 | 26.04 | 19.20 | | 17.30 | | 15.40 |
| MM 50*70 | | | 70 | 22.32 | 22.40 | | 20.20 | | 17.90 |
| MM 50*80 | | | 80 | 19.53 | 25.60 | | 23.00 | | 20.50 |
| MM 50*90 | | | 90 | 17.36 | 28.80 | | 25.90 | | 23.00 |
| MM 50*100 | 50 | 25 | 100 | 15.62 | 32.00 | 500 (4900) | 28.80 | 450 (4410) | 400 (3920) |
| MM 50*125 | | | 125 | 12.50 | 40.00 | | 36.00 | | 32.00 |
| MM 50*150 | | | 150 | 10.41 | 48.00 | | 43.20 | | 38.40 |
| MM 50*175 | | | 175 | 8.92 | 56.00 | | 50.40 | | 44.80 |
| MM 50*200 | | | 200 | 7.81 | 64.00 | | 57.60 | | 51.20 |
| MM 50*250 | | | 250 | 6.25 | 80.00 | | 72.00 | | 64.00 |
| MM 50*300 | | | 300 | 5.20 | 96.00 | | 86.40 | | 76.80 |
| MM 60*60 | | | 60 | 37.40 | 19.20 | | 17.30 | | 15.40 |
| MM 60*70 | | | 70 | 32.10 | 22.40 | | 20.20 | | 17.90 |
| MM 60*80 | | | 80 | 28.12 | 25.60 | | 23.00 | | 20.50 |
| MM 60*90 | | | 90 | 25.00 | 28.80 | | 25.90 | | 23.00 |
| MM 60*100 | | | 100 | 22.50 | 32.00 | | 28.80 | | 25.60 |
| MM 60*125 | 60 | 33 | 125 | 18.00 | 40.00 | 720 (7060) | 36.00 | 648 (6350) | 575 (5640) |
| MM 60*150 | | | 150 | 15.00 | 48.00 | | 43.20 | | 38.40 |
| MM 60*175 | | | 175 | 12.85 | 56.00 | | 50.40 | | 44.80 |
| MM 60*200 | | | 200 | 11.25 | 64.00 | | 57.60 | | 51.20 |
| MM 60*250 | | | 250 | 9.00 | 80.00 | | 72.00 | | 64.00 |
| MM 60*300 | | | 300 | 7.50 | 96.00 | | 86.40 | | 76.80 |

| MSC | | 重负荷/Heavy Load | | | | | | L绿色/Green | | | |
|----------------------|---------------------|---------------------|-----------------------------|----------------------------------|-------------------|-----------------------|-------------------|-----------------------|-------------------|-----------------------|--|
| 型号 Part Number | 外径 Outer Dia. | 内径 Inner Dia. | 自由长 Free Length 长度 | 弹簧定数 Spring Constant 定数 | 自由长 X 24% | | 自由长 X 22% | | 自由长 X 19% | | |
| | | | | | Deflection 压缩数 | 荷重 Load kgf (N) | Deflection 压缩数 | 荷重 Load kgf (N) | Deflection 压缩数 | 荷重 Load kgf (N) | |
| MH 8*10 | | | 10 | 8.80 | 2.40 | | 2.20 | | 1.90 | | |
| MH 8*15 | | | 15 | 5.86 | 3.60 | | 3.20 | | 2.90 | | |
| MH 8*20 | | | 20 | 4.40 | 4.80 | | 4.30 | | 3.80 | | |
| MH 8*25 | | | 25 | 3.52 | 6.00 | | 5.40 | | 4.80 | | |
| MH 8*30 | | | 30 | 2.93 | 7.20 | | 6.50 | | 5.80 | | |
| MH 8*35 | 8 | 4 | 35 | 2.51 | 8.40 | 21 (206) | 7.50 | 19 (186.3) | 6.70 | 17 (166.7) | |
| MH 8*40 | | | 40 | 2.20 | 9.60 | | 8.60 | | 7.70 | | |
| MH 8*45 | | | 45 | 1.95 | 10.80 | | 9.70 | | 8.60 | | |
| MH 8*50 | | | 50 | 1.76 | 12.00 | | 10.80 | | 9.60 | | |
| MH 8*55 | | | 55 | 1.60 | 13.20 | | 11.80 | | 10.60 | | |
| MH 8*60 | | | 60 | 1.47 | 14.40 | | 13.00 | | 11.50 | | |
| MH 10*20 | | | 20 | 6.25 | 4.80 | | 4.30 | | 3.80 | | |
| MH 10*25 | | | 25 | 5.00 | 6.00 | | 5.40 | | 4.80 | | |
| MH 10*30 | | | 30 | 4.16 | 7.20 | | 6.50 | | 5.80 | | |
| MH 10*35 | | | 35 | 3.57 | 8.40 | | 7.50 | | 6.70 | | |
| MH 10*40 | | | 40 | 3.15 | 9.60 | | 8.60 | | 7.70 | | |
| MH 10*45 | 10 | 5 | 45 | 2.77 | 10.80 | 30 (294) | 9.70 | 27 (265) | 8.60 | 24 (235) | |
| MH 10*50 | | | 50 | 2.50 | 12.00 | | 10.80 | | 9.60 | | |
| MH 10*55 | | | 55 | 2.27 | 13.20 | | 11.80 | | 10.60 | | |
| MH 10*60 | | | 60 | 2.08 | 14.40 | | 13.00 | | 11.50 | | |
| MH 10*65 | | | 65 | 1.92 | 15.60 | | 14.00 | | 12.50 | | |
| MH 10*70 | | | 70 | 1.79 | 16.80 | | 15.10 | | 13.40 | | |

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|-----------|----|----|-----|-------|-------|------------|-------|------------|----------|
| MH 10*75 | | | 75 | 1.67 | 18.00 | | 16.20 | | 14.40 |
| MH 12*20 | | | 20 | 8.90 | 4.80 | | 4.30 | | 3.80 |
| MH 12*25 | | | 25 | 7.10 | 6.00 | | 5.40 | | 4.80 |
| MH 12*30 | | | 30 | 5.97 | 7.20 | | 6.50 | | 5.80 |
| MH 12*35 | | | 35 | 5.11 | 8.40 | | 7.50 | | 6.70 |
| MH 12*40 | | | 40 | 4.47 | 9.60 | | 8.60 | | 7.70 |
| MH 12*45 | | | 45 | 3.98 | 10.80 | | 9.70 | | 8.60 |
| MH 12*50 | 12 | 6 | 50 | 3.58 | 12.00 | 43 (422) | 10.80 | 38 (373) | 34 (333) |
| MH 12*55 | | | 55 | 3.25 | 13.20 | | 11.80 | | 10.60 |
| MH 12*60 | | | 60 | 2.98 | 14.40 | | 13.00 | | 11.50 |
| MH 12*65 | | | 65 | 2.74 | 15.60 | | 14.00 | | 12.50 |
| MH 12*70 | | | 70 | 2.54 | 16.80 | | 15.10 | | 13.40 |
| MH 12*75 | | | 75 | 2.37 | 18.00 | | 16.20 | | 14.40 |
| MH 12*80 | | | 80 | 2.21 | 19.20 | | 17.30 | | 15.40 |
| MH 14*25 | | | 25 | 9.83 | 6.00 | | 5.40 | | 4.80 |
| MH 14*30 | | | 30 | 8.19 | 7.20 | | 6.50 | | 5.80 |
| MH 14*35 | | | 35 | 7.02 | 8.40 | | 7.50 | | 6.70 |
| MH 14*40 | | | 40 | 6.14 | 9.60 | | 8.60 | | 7.70 |
| MH 14*45 | | | 45 | 5.46 | 10.80 | | 9.70 | | 8.60 |
| MH 14*50 | | | 50 | 4.91 | 12.00 | | 10.80 | | 9.60 |
| MH 14*55 | 14 | 7 | 55 | 4.46 | 13.20 | 59 (579) | 11.80 | 53 (520) | 47 (461) |
| MH 14*60 | | | 60 | 4.09 | 14.40 | | 13.00 | | 11.50 |
| MH 14*65 | | | 65 | 3.78 | 15.60 | | 14.00 | | 12.50 |
| MH 14*70 | | | 70 | 3.51 | 16.80 | | 15.10 | | 13.40 |
| MH 14*75 | | | 75 | 3.27 | 18.00 | | 16.20 | | 14.40 |
| MH 14*80 | | | 80 | 3.07 | 19.20 | | 17.30 | | 15.40 |
| MH 14*90 | | | 90 | 2.72 | 21.60 | | 19.4 | | 17.30 |
| MH 16*25 | | | 25 | 12.83 | 6.00 | | 5.40 | | 4.80 |
| MH 16*30 | | | 30 | 10.69 | 7.20 | | 6.50 | | 5.80 |
| MH 16*35 | | | 35 | 9.16 | 8.40 | | 7.50 | | 6.70 |
| MH 16*40 | | | 40 | 8.02 | 9.60 | | 8.60 | | 7.70 |
| MH 16*45 | | | 45 | 7.12 | 10.80 | | 9.70 | | 8.60 |
| MH 16*50 | | | 50 | 6.41 | 12.00 | | 10.80 | | 9.60 |
| MH 16*55 | 16 | 8 | 55 | 5.83 | 13.20 | 77 (755) | 11.80 | 69 (608) | 62 (608) |
| MH 16*60 | | | 60 | 5.34 | 14.40 | | 13.00 | | 11.50 |
| MH 16*65 | | | 65 | 4.93 | 15.60 | | 14.00 | | 12.50 |
| MH 16*70 | | | 70 | 4.58 | 16.80 | | 15.10 | | 13.40 |
| MH 16*75 | | | 75 | 4.28 | 18.00 | | 16.20 | | 14.40 |
| MH 16*80 | | | 80 | 4.01 | 19.20 | | 17.30 | | 15.40 |
| MH 16*90 | | | 90 | 3.57 | 21.60 | | 19.4 | | 17.30 |
| MH 16*100 | | | 100 | 3.21 | 24.00 | | 21.60 | | 19.20 |
| MH 18*25 | | | 25 | 16.16 | 6.00 | | 5.40 | | 4.80 |
| MH 18*30 | | | 30 | 13.57 | 7.20 | | 6.50 | | 5.80 |
| MH 18*35 | | | 35 | 11.54 | 8.40 | | 7.50 | | 6.70 |
| MH 18*40 | | | 40 | 10.10 | 9.60 | | 8.60 | | 7.70 |
| MH 18*45 | | | 45 | 8.98 | 10.80 | | 9.70 | | 8.60 |
| MH 18*50 | | | 50 | 8.08 | 12.00 | | 10.80 | | 9.60 |
| MH 18*55 | 18 | 9 | 55 | 7.34 | 13.20 | 97 (951) | 11.80 | 87 (853) | 78 (765) |
| MH 18*60 | | | 60 | 6.73 | 14.40 | | 13.00 | | 11.50 |
| MH 18*65 | | | 65 | 6.21 | 15.60 | | 14.00 | | 12.50 |
| MH 18*70 | | | 70 | 5.77 | 16.80 | | 15.10 | | 13.40 |
| MH 18*75 | | | 75 | 5.39 | 18.00 | | 16.20 | | 14.40 |
| MH 18*80 | | | 80 | 5.05 | 19.20 | | 17.30 | | 15.40 |
| MH 18*90 | | | 90 | 4.50 | 21.60 | | 19.4 | | 17.30 |
| MH 18*100 | | | 100 | 4.04 | 24.00 | | 21.60 | | 19.20 |
| MH 20*25 | | | 25 | 20.00 | 6.00 | | 5.40 | | 4.80 |
| MH 20*30 | | | 30 | 16.66 | 7.20 | | 6.50 | | 5.80 |
| MH 20*35 | | | 35 | 14.28 | 8.40 | | 7.50 | | 6.70 |
| MH 20*40 | | | 40 | 12.50 | 9.60 | | 8.60 | | 7.70 |
| MH 20*45 | | | 45 | 11.11 | 10.80 | | 9.70 | | 8.60 |
| MH 20*50 | | | 50 | 10.00 | 12.00 | | 10.80 | | 9.60 |
| MH 20*55 | | | 55 | 9.09 | 13.20 | | 11.80 | | 10.60 |
| MH 20*60 | 20 | 10 | 60 | 8.33 | 14.40 | 120 (1177) | 13.00 | 108 (1059) | 96 (941) |
| MH 20*65 | | | 65 | 7.69 | 15.60 | | 14.00 | | 12.50 |
| MH 20*70 | | | 70 | 7.14 | 16.80 | | 15.10 | | 13.40 |
| MH 20*75 | | | 75 | 6.67 | 18.00 | | 16.20 | | 14.40 |
| MH 20*80 | | | 80 | 6.25 | 19.20 | | 17.30 | | 15.40 |
| MH 20*90 | | | 90 | 5.55 | 21.60 | | 19.4 | | 17.30 |
| MH 20*100 | | | 100 | 5.00 | 24.00 | | 21.60 | | 19.20 |

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|-----------|----|------|------------|-------------|--------------|-----------|--------------|-----------|--------------|
| MH 20*125 | | | 125 | 4.00 | 30.00 | | 27.00 | | 24.00 |
| MH 20*150 | | | <u>150</u> | <u>3.33</u> | 36.00 | | 32.40 | | <u>28.80</u> |
| MH 22*25 | | | 25 | 24.16 | 6.00 | | 5.40 | | 4.80 |
| MH 22*30 | | | 30 | 20.13 | 7.20 | | 6.50 | | 5.80 |
| MH 22*35 | | | 35 | 17.30 | 8.40 | | 7.50 | | 6.70 |
| MH 22*40 | | | 40 | 15.10 | 9.60 | | 8.60 | | 7.70 |
| MH 22*45 | | | 45 | 13.40 | 10.80 | | 9.70 | | 8.60 |
| MH 22*50 | | | 50 | 12.08 | 12.00 | | 10.80 | | 9.60 |
| MH 22*55 | | | 55 | 10.94 | 13.20 | | 11.80 | | 10.60 |
| MH 22*60 | 22 | 11 | 60 | 10.06 | 14.40 | 145(1422) | 13.00 | 130(1275) | 11.50 |
| MH 22*65 | | | 65 | 9.28 | 15.60 | | 14.00 | | 12.50 |
| MH 22*70 | | | 70 | 8.63 | 16.80 | | 15.10 | | 13.40 |
| MH 22*75 | | | 75 | 8.04 | 18.00 | | 16.20 | | 14.40 |
| MH 22*80 | | | 80 | 7.55 | 19.20 | | 17.30 | | 15.40 |
| MH 22*90 | | | 90 | 6.71 | 21.60 | | 19.4 | | 17.30 |
| MH 22*100 | | | 100 | 6.04 | 24.00 | | 21.60 | | 19.20 |
| MH 22*125 | | | 125 | 4.83 | 30.00 | | 27.00 | | 24.00 |
| MH 22*150 | | | <u>150</u> | <u>4.02</u> | 36.00 | | <u>32.40</u> | | <u>28.80</u> |
| MH 25*25 | | | 25 | 31.20 | 6.00 | | 5.40 | | 4.80 |
| MH 25*30 | | | 30 | 25.97 | 7.20 | | 6.50 | | 5.80 |
| MH 25*35 | | | 35 | 22.38 | 8.40 | | 7.50 | | 6.70 |
| MH 25*40 | | | 40 | 19.47 | 9.60 | | 8.60 | | 7.70 |
| MH 25*45 | | | 45 | 17.40 | 10.80 | | 9.70 | | 8.60 |
| MH 25*50 | | | 50 | 15.58 | 12.00 | | 10.80 | | 9.60 |
| MH 25*55 | | | 55 | 14.20 | 13.20 | | 11.80 | | 10.60 |
| MH 25*60 | | | 60 | 12.98 | 14.40 | | 13.00 | | 11.50 |
| MH 25*65 | 25 | 12.5 | 65 | 12.00 | 15.60 | 187(1834) | 14.00 | 169(1657) | 12.50 |
| MH 25*70 | | | 70 | 11.13 | 16.80 | | 15.10 | | 13.40 |
| MH 25*75 | | | 75 | 10.40 | 18.00 | | 16.20 | | 14.40 |
| MH 25*80 | | | 80 | 9.73 | 19.20 | | 17.30 | | 15.40 |
| MH 25*90 | | | 90 | 8.65 | 21.60 | | 19.4 | | 17.30 |
| MH 25*100 | | | 100 | 7.79 | 24.00 | | 21.60 | | 19.20 |
| MH 25*125 | | | 125 | 6.23 | 30.00 | | 27.00 | | 24.00 |
| MH 25*150 | | | 150 | 5.20 | 36.00 | | 32.40 | | 28.80 |
| MH 25*175 | | | <u>175</u> | <u>4.46</u> | <u>42.00</u> | | <u>37.80</u> | | <u>33.60</u> |
| MH 27*25 | | | 25 | 36.40 | 6.00 | | 5.40 | | 4.80 |
| MH 27*30 | | | 30 | 30.41 | 7.20 | | 6.50 | | 5.80 |
| MH 27*35 | | | 35 | 26.20 | 8.40 | | 7.50 | | 6.70 |
| MH 27*40 | | | 40 | 22.81 | 9.60 | | 8.60 | | 7.70 |
| MH 27*45 | | | 45 | 20.30 | 10.80 | | 9.70 | | 8.60 |
| MH 27*50 | | | 50 | 18.25 | 12.00 | | 10.80 | | 9.60 |
| MH 27*55 | | | 55 | 16.50 | 13.20 | | 11.80 | | 10.60 |
| MH 27*60 | | | 60 | 15.20 | 14.40 | | 13.00 | | 11.50 |
| MH 27*65 | 27 | 13.5 | 65 | 14.00 | 15.60 | 219(2150) | 14.00 | 197(1932) | 12.50 |
| MH 27*70 | | | 70 | 13.03 | 16.80 | | 15.10 | | 13.40 |
| MH 27*75 | | | 75 | 12.10 | 18.00 | | 16.20 | | 14.40 |
| MH 27*80 | | | 80 | 11.40 | 19.20 | | 17.30 | | 15.40 |
| MH 27*90 | | | 90 | 10.13 | 21.60 | | 19.4 | | 17.30 |
| MH 27*100 | | | 100 | 9.12 | 24.00 | | 21.60 | | 19.20 |
| MH 27*125 | | | 125 | 7.30 | 30.00 | | 27.00 | | 24.00 |
| MH 27*150 | | | 150 | 6.08 | 36.00 | | 32.40 | | 28.80 |
| MH 27*175 | | | <u>175</u> | <u>5.21</u> | <u>42.00</u> | | <u>37.80</u> | | <u>33.60</u> |
| MH 30*25 | | | 25 | 45.00 | 6.00 | | 5.40 | | 4.80 |
| MH 30*30 | | | 30 | 37.50 | 7.20 | | 6.50 | | 5.80 |
| MH 30*35 | | | 35 | 32.26 | 8.40 | | 7.50 | | 6.70 |
| MH 30*40 | | | 40 | 28.12 | 9.60 | | 8.60 | | 7.70 |
| MH 30*45 | | | 45 | 25.00 | 10.80 | | 9.70 | | 8.60 |
| MH 30*50 | | | 50 | 22.50 | 12.00 | | 10.80 | | 9.60 |
| MH 30*55 | | | 55 | 20.40 | 13.20 | | 11.80 | | 10.60 |
| MH 30*60 | | | 60 | 18.75 | 14.40 | | 13.00 | | 11.50 |
| MH 30*65 | 30 | 15 | 65 | 17.30 | 15.60 | 270(2550) | 14.00 | 243(2380) | 12.50 |
| MH 30*70 | | | 70 | 16.07 | 16.80 | | 15.10 | | 13.40 |
| MH 30*75 | | | 75 | 15.00 | 18.00 | | 16.20 | | 14.40 |
| MH 30*80 | | | 80 | 14.06 | 19.20 | | 17.30 | | 15.40 |
| MH 30*90 | | | 90 | 12.50 | 21.60 | | 19.4 | | 17.30 |
| MH 30*100 | | | 100 | 11.25 | 24.00 | | 21.60 | | 19.20 |
| MH 30*125 | | | 125 | 9.00 | 30.00 | | 27.00 | | 24.00 |
| MH 30*150 | | | 150 | 7.50 | 36.00 | | 32.40 | | 28.80 |
| MH 30*175 | | | <u>175</u> | <u>6.42</u> | <u>42.00</u> | | <u>37.80</u> | | <u>33.60</u> |

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|-----------|----|------|-----|-------|-------|-------------|-------|-----------|-------|-----------|
| MH 30*200 | | | 200 | 5.62 | 48.00 | | 43.20 | | 38.40 | |
| MH 35*40 | | | 40 | 38.22 | 9.60 | | 8.60 | | 7.70 | |
| MH 35*50 | | | 50 | 30.58 | 12.00 | | 10.80 | | 9.60 | |
| MH 35*55 | | | 55 | 27.80 | 13.20 | | 11.90 | | 10.60 | |
| MH 35*60 | | | 60 | 25.48 | 14.40 | | 13.00 | | 11.50 | |
| MH 35*65 | | | 65 | 23.53 | 15.60 | | 14.00 | | 12.50 | |
| MH 35*70 | | | 70 | 21.84 | 16.80 | | 15.10 | | 13.40 | |
| MH 35*75 | 35 | 17.5 | 75 | 20.39 | 18.00 | 367(3600) | 16.20 | 330(3240) | 14.40 | 293(2870) |
| MH 35*80 | | | 80 | 19.11 | 19.20 | | 17.30 | | 15.40 | |
| MH 35*90 | | | 90 | 16.99 | 21.60 | | 19.4 | | 17.30 | |
| MH 35*100 | | | 100 | 15.29 | 24.00 | | 21.60 | | 19.20 | |
| MH 35*125 | | | 125 | 12.23 | 30.00 | | 27.00 | | 24.00 | |
| MH 35*150 | | | 150 | 10.19 | 36.00 | | 32.40 | | 28.80 | |
| MH 35*175 | | | 175 | 8.73 | 42.00 | | 37.80 | | 33.60 | |
| MH 35*200 | | | 200 | 7.64 | 48.00 | | 43.20 | | 38.40 | |
| MH 40*40 | | | 40 | 50.00 | 9.60 | | 9.60 | | 7.70 | |
| MH 40*50 | | | 50 | 40.00 | 12.00 | | 12.00 | | 9.60 | |
| MH 40*60 | | | 60 | 33.33 | 14.40 | | 14.40 | | 11.50 | |
| MH 40*70 | | | 70 | 28.57 | 16.80 | | 16.80 | | 13.40 | |
| MH 40*80 | | | 80 | 25.00 | 18.00 | | 19.20 | | 15.40 | |
| MH 40*90 | 40 | 22 | 90 | 22.22 | 19.20 | 480(4170) | 21.60 | 432(4240) | 17.30 | 384(3770) |
| MH 40*100 | | | 100 | 20.00 | 21.60 | | 24.00 | | 19.20 | |
| MH 40*125 | | | 125 | 16.00 | 24.00 | | 30.00 | | 24.00 | |
| MH 40*150 | | | 150 | 13.33 | 30.00 | | 36.00 | | 28.80 | |
| MH 40*175 | | | 175 | 11.42 | 36.00 | | 42.00 | | 33.60 | |
| MH 40*200 | | | 200 | 10.00 | 42.00 | | 48.00 | | 38.40 | |
| MH 40*250 | | | 250 | 8.00 | 48.00 | | 60.00 | | 48.00 | |
| MH 50*50 | | | 50 | 62.50 | 12.00 | | 10.80 | | 9.60 | |
| MH 50*60 | | | 60 | 52.08 | 14.40 | | 13.00 | | 11.50 | |
| MH 50*70 | | | 70 | 44.64 | 16.80 | | 15.10 | | 13.40 | |
| MH 50*80 | | | 80 | 39.06 | 19.20 | | 17.30 | | 15.40 | |
| MH 50*90 | | | 90 | 34.72 | 21.60 | | 19.40 | | 17.30 | |
| MH 50*100 | 50 | 25 | 100 | 31.25 | 24.00 | 750(7360) | 21.60 | 675(6620) | 19.20 | 600(5880) |
| MH 50*125 | | | 125 | 25.00 | 30.00 | | 27.00 | | 24.00 | |
| MH 50*150 | | | 150 | 20.83 | 36.00 | | 32.40 | | 28.80 | |
| MH 50*175 | | | 175 | 17.85 | 42.00 | | 37.80 | | 33.60 | |
| MH 50*200 | | | 200 | 15.62 | 48.00 | | 43.20 | | 38.40 | |
| MH 50*250 | | | 250 | 12.50 | 60.00 | | 54.00 | | 48.00 | |
| MH 50*300 | | | 300 | 10.41 | 72 | | 64.80 | | 57.60 | |
| MH 60*60 | | | 60 | 75.00 | 14.40 | | 13.00 | | 11.50 | |
| MH 60*70 | | | 70 | 64.28 | 16.80 | | 15.10 | | 13.40 | |
| MH 60*80 | | | 80 | 56.25 | 19.20 | | 17.30 | | 15.40 | |
| MH 60*90 | | | 90 | 50.00 | 21.60 | | 19.40 | | 17.30 | |
| MH 60*100 | | | 100 | 45.00 | 24.00 | | 21.60 | | 19.20 | |
| MH 60*125 | 60 | 33 | 125 | 36.00 | 30.00 | 1080(10590) | 27.00 | 973(9540) | 24.00 | 864(8470) |
| MH 60*150 | | | 150 | 30.00 | 36.00 | | 32.40 | | 28.80 | |
| MH 60*175 | | | 175 | 25.71 | 42.00 | | 37.80 | | 33.60 | |
| MH 60*200 | | | 200 | 22.50 | 48.00 | | 43.20 | | 38.40 | |
| MH 60*250 | | | 250 | 18.00 | 60.00 | | 54.00 | | 48.00 | |
| MH 60*300 | | | 300 | 15.00 | 72 | | 64.80 | | 57.60 | |

| MSC | | 超重负荷/Brown Load | | | | | | 褐色/Brown | | | |
|----------------------|---------------------|---------------------|-------------------------------------|--|---------------------------|-----------------------|---------------------------|-----------------------|---------------------------|-----------------------|--|
| 型号 Part Number | 外径 Outer Dia. | 内径 Inner Dia. | 自由长 Free Length 长度 (mm) | 弹簧定数 Spring Constant 定数 (kgf/mm) | 自由长 X 20% | | 自由长 X 18% | | 自由长 X 16% | | |
| | | | | | Free Length X20 % | | Free Length X 18% | | Free Length X 16% | | |
| | | | | | Deflection 压缩数 (mm) | 荷重 Load kgf (N) | Deflection 压缩数 (mm) | 荷重 Load kgf (N) | Deflection 压缩数 (mm) | 荷重 Load kgf (N) | |
| MB 8*10 | | | 10 | 16.94 | 2.00 | | 1.80 | | 1.60 | | |
| MB 8*15 | | | 15 | 11.30 | 3.00 | | 2.70 | | 2.40 | | |
| MB 8*20 | | | 20 | 8.47 | 4.00 | | 3.60 | | 3.20 | | |
| MB 8*25 | | | 25 | 6.78 | 5.00 | | 4.50 | | 4.00 | | |
| MB 8*30 | | | 30 | 5.65 | 6.00 | | 5.40 | | 4.80 | | |
| MB 8*35 | 8 | 4 | 35 | 4.84 | 7.00 | 35(343) | 6.30 | 30.5(299) | 5.60 | 26(255) | |
| MB 8*40 | | | 40 | 4.20 | 8.00 | | 7.20 | | 6.40 | | |
| MB 8*45 | | | 45 | 3.77 | 9.00 | | 8.10 | | 7.20 | | |
| MB 8*50 | | | 50 | 3.39 | 10.00 | | 9.00 | | 8.00 | | |

| | | | | | | | | | | |
|-----------|-----|-------|-----|-------|-------|------------|-------|------------|-----------|-----------|
| MB 8*55 | | | 55 | 3.08 | 11.00 | | 9.90 | | 8.80 | |
| MB 8*60 | | | 60 | 2.82 | 12.00 | | 10.80 | | 9.60 | |
| MB 10*20 | 10 | 5 | 20 | 11.25 | 4.00 | 45 (441) | 3.60 | 41 (402) | 3.20 | 36 (353) |
| MB 10*25 | | | 25 | 9.00 | 5.00 | | 4.50 | | 4.00 | |
| MB 10*30 | | | 30 | 7.50 | 6.00 | | 5.40 | | 4.80 | |
| MB 10*35 | | | 35 | 6.43 | 7.00 | | 6.30 | | 5.60 | |
| MB 10*40 | | | 40 | 5.63 | 8.00 | | 7.20 | | 6.40 | |
| MB 10*45 | | | 45 | 5.00 | 9.00 | | 8.10 | | 7.20 | |
| MB 10*50 | | | 50 | 4.50 | 10.00 | | 9.00 | | 8.00 | |
| MB 10*55 | | | 55 | 4.09 | 11.00 | | 9.90 | | 8.80 | |
| MB 10*60 | | | 60 | 3.75 | 12.00 | | 10.80 | | 9.60 | |
| MB 10*65 | | | 65 | 3.47 | 13.00 | | 11.70 | | 10.40 | |
| MB 10*70 | | | 70 | 3.21 | 14.00 | | 12.60 | | 11.20 | |
| MB 10*75 | | | 75 | 3.00 | 15.00 | | 13.50 | | 12.00 | |
| MB 10*80 | | | 80 | 2.82 | 16.00 | | 14.40 | | 12.80 | |
| MB 12*20 | | | 12 | 6 | 20 | | 14.50 | | 4.00 | |
| MB 12*25 | 25 | 11.60 | | | 5.00 | 4.50 | 4.00 | | | |
| MB 12*30 | 30 | 9.67 | | | 6.00 | 5.40 | 4.80 | | | |
| MB 12*35 | 35 | 8.29 | | | 7.00 | 6.30 | 5.60 | | | |
| MB 12*40 | 40 | 7.25 | | | 8.00 | 7.20 | 6.40 | | | |
| MB 12*45 | 45 | 6.44 | | | 9.00 | 8.10 | 7.20 | | | |
| MB 12*50 | 50 | 5.80 | | | 10.00 | 9.00 | 8.00 | | | |
| MB 12*55 | 55 | 5.27 | | | 11.00 | 9.90 | 8.80 | | | |
| MB 12*60 | 60 | 4.83 | | | 12.00 | 10.80 | 9.60 | | | |
| MB 12*65 | 65 | 4.44 | | | 13.00 | 11.70 | 10.40 | | | |
| MB 12*70 | 70 | 4.13 | | | 14.00 | 12.60 | 11.20 | | | |
| MB 12*75 | 75 | 3.85 | | | 15.00 | 13.50 | 12.00 | | | |
| MB 12*80 | 80 | 3.61 | | | 16.00 | 14.40 | 12.80 | | | |
| MB 14*25 | 14 | 7 | | | 25 | 15.00 | 5.00 | 75 (736) | 4.50 | 68 (667) |
| MB 14*30 | | | 30 | 12.50 | 6.00 | 5.40 | 4.80 | | | |
| MB 14*35 | | | 35 | 10.72 | 7.00 | 6.30 | 5.60 | | | |
| MB 14*40 | | | 40 | 9.38 | 8.00 | 7.20 | 6.40 | | | |
| MB 14*45 | | | 45 | 8.34 | 9.00 | 8.10 | 7.20 | | | |
| MB 14*50 | | | 50 | 7.50 | 10.00 | 9.00 | 8.00 | | | |
| MB 14*55 | | | 55 | 6.82 | 11.00 | 9.90 | 8.80 | | | |
| MB 14*60 | | | 60 | 6.25 | 12.00 | 10.80 | 9.60 | | | |
| MB 14*65 | | | 65 | 5.77 | 13.00 | 11.70 | 10.40 | | | |
| MB 14*70 | | | 70 | 5.36 | 14.00 | 12.60 | 11.20 | | | |
| MB 14*75 | | | 75 | 5.00 | 15.00 | 13.50 | 12.00 | | | |
| MB 14*80 | | | 80 | 4.69 | 16.00 | 14.40 | 12.80 | | | |
| MB 14*90 | | | 90 | 4.17 | 18.00 | 16.20 | 14.40 | | | |
| MB 16*25 | | | 16 | 8 | 25 | 20.00 | 5.00 | | 100 (981) | |
| MB 16*30 | 30 | 16.67 | | | 6.00 | 5.40 | 4.80 | | | |
| MB 16*35 | 35 | 14.29 | | | 7.00 | 6.30 | 5.60 | | | |
| MB 16*40 | 40 | 12.50 | | | 8.00 | 7.20 | 6.40 | | | |
| MB 16*45 | 45 | 11.11 | | | 9.00 | 8.10 | 7.20 | | | |
| MB 16*50 | 50 | 10.00 | | | 10.00 | 9.00 | 8.00 | | | |
| MB 16*55 | 55 | 9.09 | | | 11.00 | 9.90 | 8.80 | | | |
| MB 16*60 | 60 | 8.34 | | | 12.00 | 10.80 | 9.60 | | | |
| MB 16*65 | 65 | 7.69 | | | 13.00 | 11.70 | 10.40 | | | |
| MB 16*70 | 70 | 7.14 | | | 14.00 | 12.60 | 11.20 | | | |
| MB 16*75 | 75 | 6.67 | | | 15.00 | 13.50 | 12.00 | | | |
| MB 16*80 | 80 | 6.25 | | | 16.00 | 14.40 | 12.80 | | | |
| MB 16*90 | 90 | 5.56 | | | 18.00 | 16.20 | 14.40 | | | |
| MB 16*100 | 100 | 5.00 | | | 20.00 | 18.00 | 16.00 | | | |
| MB 18*25 | 18 | 9 | 25 | 25.00 | 5.00 | 125 (1226) | 4.50 | 113 (1108) | 4.00 | 100 (981) |
| MB 18*30 | | | 30 | 20.84 | 6.00 | | 5.40 | | 4.80 | |
| MB 18*35 | | | 35 | 17.86 | 7.00 | | 6.30 | | 5.60 | |
| MB 18*40 | | | 40 | 15.63 | 8.00 | | 7.20 | | 6.40 | |
| MB 18*45 | | | 45 | 13.89 | 9.00 | | 8.10 | | 7.20 | |
| MB 18*50 | | | 50 | 12.50 | 10.00 | | 9.00 | | 8.00 | |
| MB 18*55 | | | 55 | 11.37 | 11.00 | | 9.90 | | 8.80 | |
| MB 18*60 | | | 60 | 10.42 | 12.00 | | 10.80 | | 9.60 | |
| MB 18*65 | | | 65 | 9.62 | 13.00 | | 11.70 | | 10.40 | |
| MB 18*70 | | | 70 | 8.93 | 14.00 | | 12.60 | | 11.20 | |
| MB 18*75 | | | 75 | 8.34 | 15.00 | | 13.50 | | 12.00 | |
| MB 18*80 | | | 80 | 7.82 | 16.00 | | 14.40 | | 12.80 | |
| MB 18*90 | | | 90 | 6.95 | 18.00 | | 16.20 | | 14.40 | |
| MB 18*100 | | | 100 | 6.26 | 20.00 | | 18.00 | | 16.00 | |

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|-----------|-----|-------|-------|-------|-------|------------|-------|------------|-------|------------|
| MB 20*25 | 20 | 1(10) | 25 | 32.00 | 5.00 | 160 (1569) | 4.50 | 144 (1412) | 4.00 | 128 (1255) |
| MB 20*30 | | | 30 | 26.67 | 6.00 | | 5.40 | | 4.80 | |
| MB 20*35 | | | 35 | 22.86 | 7.00 | | 6.30 | | 5.60 | |
| MB 20*40 | | | 40 | 20.00 | 8.00 | | 7.20 | | 6.40 | |
| MB 20*45 | | | 45 | 17.78 | 9.00 | | 8.10 | | 7.20 | |
| MB 20*50 | | | 50 | 16.00 | 10.00 | | 9.00 | | 8.00 | |
| MB 20*55 | | | 55 | 14.55 | 11.00 | | 9.90 | | 8.80 | |
| MB 20*60 | | | 60 | 13.33 | 12.00 | | 10.80 | | 9.60 | |
| MB 20*65 | | | 65 | 12.31 | 13.00 | | 11.70 | | 10.40 | |
| MB 20*70 | | | 70 | 11.43 | 14.00 | | 12.60 | | 11.20 | |
| MB 20*75 | | | 75 | 10.67 | 15.00 | | 13.50 | | 12.00 | |
| MB 20*80 | | | 80 | 10.00 | 16.00 | | 14.40 | | 12.80 | |
| MB 20*90 | | | 90 | 8.89 | 18.00 | | 16.20 | | 14.40 | |
| MB 20*100 | | | 100 | 8.00 | 20.00 | | 18.00 | | 16.00 | |
| MB 20*125 | | | 125 | 6.40 | 25.00 | | 22.50 | | 20.00 | |
| MB 20*150 | 150 | 5.33 | 30.00 | 27.00 | 24.00 | | | | | |
| MB 22*25 | 22 | 11 | 25 | 39.00 | 5.00 | 195 (1912) | 4.50 | 176 (1726) | 4.00 | 156 (1530) |
| MB 22*30 | | | 30 | 32.50 | 6.00 | | 5.40 | | 4.80 | |
| MB 22*35 | | | 35 | 27.86 | 7.00 | | 6.30 | | 5.60 | |
| MB 22*40 | | | 40 | 24.38 | 8.00 | | 7.20 | | 6.40 | |
| MB 22*45 | | | 45 | 21.67 | 9.00 | | 8.10 | | 7.20 | |
| MB 22*50 | | | 50 | 19.50 | 10.00 | | 9.00 | | 8.00 | |
| MB 22*55 | | | 55 | 17.73 | 11.00 | | 9.90 | | 8.80 | |
| MB 22*60 | | | 60 | 16.25 | 12.00 | | 10.80 | | 9.60 | |
| MB 22*65 | | | 65 | 15.00 | 13.00 | | 11.70 | | 10.40 | |
| MB 22*70 | | | 70 | 13.93 | 14.00 | | 12.60 | | 11.20 | |
| MB 22*75 | | | 75 | 13.00 | 15.00 | | 13.50 | | 12.00 | |
| MB 22*80 | | | 80 | 12.19 | 16.00 | | 14.40 | | 12.80 | |
| MB 22*90 | | | 90 | 10.83 | 18.00 | | 16.20 | | 14.40 | |
| MB 22*100 | | | 100 | 9.75 | 20.00 | | 18.00 | | 16.00 | |
| MB 22*125 | | | 125 | 7.80 | 25.00 | | 22.50 | | 20.00 | |
| MB 22*150 | 150 | 6.50 | 30.00 | 27.00 | 24.00 | | | | | |
| MB 25*25 | 25 | 5(12) | 25 | 49.00 | 5.00 | 245 (2400) | 4.50 | 221 (2170) | 4.00 | 196 (1922) |
| MB 25*30 | | | 30 | 40.80 | 6.00 | | 5.40 | | 4.80 | |
| MB 25*35 | | | 35 | 35.00 | 7.00 | | 6.30 | | 5.60 | |
| MB 25*40 | | | 40 | 30.60 | 8.00 | | 7.20 | | 6.40 | |
| MB 25*45 | | | 45 | 27.20 | 9.00 | | 8.10 | | 7.20 | |
| MB 25*50 | | | 50 | 24.50 | 10.00 | | 9.00 | | 8.00 | |
| MB 25*55 | | | 55 | 22.30 | 11.00 | | 9.90 | | 8.80 | |
| MB 25*60 | | | 60 | 20.40 | 12.00 | | 10.80 | | 9.60 | |
| MB 25*65 | | | 65 | 18.80 | 13.00 | | 11.70 | | 10.40 | |
| MB 25*70 | | | 70 | 17.50 | 14.00 | | 12.60 | | 11.20 | |
| MB 25*75 | | | 75 | 16.30 | 15.00 | | 13.50 | | 12.00 | |
| MB 25*80 | | | 80 | 15.30 | 16.00 | | 14.40 | | 12.80 | |
| MB 25*90 | | | 90 | 13.60 | 18.00 | | 16.20 | | 14.40 | |
| MB 25*100 | | | 100 | 12.30 | 20.00 | | 18.00 | | 16.00 | |
| MB 25*125 | | | 125 | 9.80 | 25.00 | | 22.50 | | 20.00 | |
| MB 25*150 | 150 | 8.17 | 30.00 | 27.00 | 24.00 | | | | | |
| MB 25*175 | 175 | 7.00 | 35.00 | 31.50 | 28.00 | | | | | |
| MB 27*25 | 27 | 13.5 | 25 | 58.00 | 5.00 | 290 (2840) | 4.50 | 261 (2560) | 4.00 | 232 (2280) |
| MB 27*30 | | | 30 | 48.33 | 6.00 | | 5.40 | | 4.80 | |
| MB 27*35 | | | 35 | 41.43 | 7.00 | | 6.30 | | 5.60 | |
| MB 27*40 | | | 40 | 36.25 | 8.00 | | 7.20 | | 6.40 | |
| MB 27*45 | | | 45 | 32.22 | 9.00 | | 8.10 | | 7.20 | |
| MB 27*50 | | | 50 | 29.00 | 10.00 | | 9.00 | | 8.00 | |
| MB 27*55 | | | 55 | 26.36 | 11.00 | | 9.90 | | 8.80 | |
| MB 27*60 | | | 60 | 24.17 | 12.00 | | 10.80 | | 9.60 | |
| MB 27*65 | | | 65 | 22.31 | 13.00 | | 11.70 | | 10.40 | |
| MB 27*70 | | | 70 | 20.71 | 14.00 | | 12.60 | | 11.20 | |
| MB 27*75 | | | 75 | 19.33 | 15.00 | | 13.50 | | 12.00 | |
| MB 27*80 | | | 80 | 18.13 | 16.00 | | 14.40 | | 12.80 | |
| MB 27*90 | | | 90 | 16.11 | 18.00 | | 16.20 | | 14.40 | |
| MB 27*100 | | | 100 | 14.50 | 20.00 | | 18.00 | | 16.00 | |
| MB 27*125 | | | 125 | 11.60 | 25.00 | | 22.50 | | 20.00 | |
| MB 27*150 | 150 | 9.67 | 30.00 | 27.00 | 24.00 | | | | | |
| MB 27*175 | 175 | 8.28 | 35.00 | 31.50 | 28.00 | | | | | |
| MB 30*25 | | | 25 | 72.00 | 5.00 | | 4.50 | | 4.00 | |
| MB 30*30 | | | 30 | 60.00 | 6.00 | | 5.40 | | 4.80 | |
| MB 30*35 | | | 35 | 51.43 | 7.00 | | 6.30 | | 5.60 | |

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|-----------|-----|---------|-----|-------|-------|------------|-------|--------------|-------------|------------|--------------|------------|------------|--------------|------------|
| MB 30*40 | 30 | 6 (15) | 40 | 45.00 | 8.00 | 360 (3530) | 7.20 | 324 (3180) | 6.40 | 288 (2820) | | | | | |
| MB 30*45 | | | 45 | 40.00 | 9.00 | | 8.10 | | 7.20 | | | | | | |
| MB 30*50 | | | 50 | 36.00 | 10.00 | | 9.00 | | 8.00 | | | | | | |
| MB 30*55 | | | 55 | 32.72 | 11.00 | | 9.90 | | 8.80 | | | | | | |
| MB 30*60 | | | 60 | 30.00 | 12.00 | | 10.80 | | 9.60 | | | | | | |
| MB 30*65 | | | 65 | 27.69 | 13.00 | | 11.70 | | 10.40 | | | | | | |
| MB 30*70 | | | 70 | 25.71 | 14.00 | | 12.60 | | 11.20 | | | | | | |
| MB 30*75 | | | 75 | 24.00 | 15.00 | | 13.50 | | 12.00 | | | | | | |
| MB 30*80 | | | 80 | 22.50 | 16.00 | | 14.40 | | 12.80 | | | | | | |
| MB 30*90 | | | 90 | 20.00 | 18.00 | | 16.20 | | 14.40 | | | | | | |
| MB 30*100 | | | 100 | 18.00 | 20.00 | | 18.00 | | 16.00 | | | | | | |
| MB 30*125 | | | 125 | 14.40 | 25.00 | | 22.50 | | 20.00 | | | | | | |
| MB 30*150 | | | 150 | 12.00 | 30.00 | | 27.00 | | 24.00 | | | | | | |
| MB 30*175 | | | 175 | 10.28 | 35.00 | | 31.50 | | 28.00 | | | | | | |
| MB 30*200 | | | 200 | 9.00 | 40.00 | | 36.00 | | 32.00 | | | | | | |
| MB 35*40 | | | 35 | 17.5 | 40 | | 61.20 | | 8.00 | | 490 (4810) | 7.20 | 441 (4320) | 6.40 | 392 (3840) |
| MB 35*45 | 45 | 54.44 | | | 9.00 | 8.10 | 7.20 | | | | | | | | |
| MB 35*50 | 50 | 49.00 | | | 10.00 | 9.00 | 8.00 | | | | | | | | |
| MB 35*55 | 55 | 44.54 | | | 11.00 | 9.90 | 8.80 | | | | | | | | |
| MB 35*60 | 60 | 40.83 | | | 12.00 | 10.80 | 9.60 | | | | | | | | |
| MB 35*65 | 65 | 37.69 | | | 13.00 | 11.70 | 10.40 | | | | | | | | |
| MB 35*70 | 70 | 35.00 | | | 14.00 | 12.60 | 11.20 | | | | | | | | |
| MB 35*75 | 75 | 32.67 | | | 15.00 | 13.50 | 12.00 | | | | | | | | |
| MB 35*80 | 80 | 30.62 | | | 16.00 | 14.40 | 12.80 | | | | | | | | |
| MB 35*90 | 90 | 27.22 | | | 18.00 | 16.20 | 14.40 | | | | | | | | |
| MB 35*100 | 100 | 24.50 | | | 20.00 | 18.00 | 16.00 | | | | | | | | |
| MB 35*125 | 125 | 19.60 | | | 25.00 | 22.50 | 20.00 | | | | | | | | |
| MB 35*150 | 150 | 16.33 | | | 30.00 | 27.00 | 24.00 | | | | | | | | |
| MB 35*175 | 175 | 14.00 | | | 35.00 | 31.50 | 28.00 | | | | | | | | |
| MB 35*200 | 200 | 12.25 | | | 40.00 | 36.00 | 32.00 | | | | | | | | |
| MB 40*40 | 40 | 22 (20) | | | 40 | 80.00 | 8.00 | 640 (6280) | 7.20 | 576 (5650) | | 6.40 | | 512 (5020) | |
| MB 40*50 | | | 50 | 64.00 | 10.00 | 9.00 | 8.00 | | | | | | | | |
| MB 40*60 | | | 60 | 53.33 | 12.00 | 10.80 | 9.60 | | | | | | | | |
| MB 40*70 | | | 70 | 45.71 | 14.00 | 12.60 | 11.20 | | | | | | | | |
| MB 40*80 | | | 80 | 40.00 | 16.00 | 14.40 | 12.80 | | | | | | | | |
| MB 40*90 | | | 90 | 35.55 | 18.00 | 16.20 | 14.40 | | | | | | | | |
| MB 40*100 | | | 100 | 32.00 | 20.00 | 18.00 | 16.00 | | | | | | | | |
| MB 40*125 | | | 125 | 25.60 | 25.00 | 22.50 | 20.00 | | | | | | | | |
| MB 40*150 | | | 150 | 21.33 | 30.00 | 27.00 | 24.00 | | | | | | | | |
| MB 40*175 | | | 175 | 18.28 | 35.00 | 31.50 | 28.00 | | | | | | | | |
| MB 40*200 | | | 200 | 15.00 | 40.00 | 36.00 | 32.00 | | | | | | | | |
| MB 40*250 | | | 250 | 12.80 | 50.00 | 45.00 | 40.00 | | | | | | | | |
| MB 50*50 | | | 50 | 25 | 50 | 100.00 | 10.00 | | 1000 (9810) | | 9.00 | 900 (8830) | 8.00 | | 800 (7850) |
| MB 50*60 | | | | | 60 | 83.33 | 12.00 | | | | 10.80 | | 9.60 | | |
| MB 50*70 | | | | | 70 | 71.42 | 14.00 | | | | 12.60 | | 11.20 | | |
| MB 50*80 | | | | | 80 | 62.50 | 16.00 | | | | 14.40 | | 12.80 | | |
| MB 50*90 | 90 | 55.55 | | | 18.00 | 16.20 | 14.40 | | | | | | | | |
| MB 50*100 | 100 | 50.00 | | | 20.00 | 18.00 | 16.00 | | | | | | | | |
| MB 50*125 | 125 | 40.00 | | | 25.00 | 22.50 | 20.00 | | | | | | | | |
| MB 50*150 | 150 | 33.33 | | | 30.00 | 27.00 | 24.00 | | | | | | | | |
| MB 50*175 | 175 | 27.57 | | | 35.00 | 31.50 | 28.00 | | | | | | | | |
| MB 50*200 | 200 | 25.00 | | | 40.00 | 36.00 | 32.00 | | | | | | | | |
| MB 50*250 | 250 | 20.00 | | | 50.00 | 45.00 | 40.00 | | | | | | | | |
| MB 50*300 | 300 | 16.66 | | | 60.00 | 54.00 | 48.00 | | | | | | | | |
| MB 60*60 | 60 | 33 | | | 60 | 120.00 | 12.00 | 1440 (14122) | | 10.80 | 1296 (12710) | | 9.60 | 1152 (11300) | |
| MB 60*70 | | | | | 70 | 102.00 | 14.00 | | | 12.60 | | | 11.20 | | |
| MB 60*80 | | | | | 80 | 90.00 | 16.00 | | | 14.40 | | | 12.80 | | |
| MB 60*90 | | | | | 90 | 80.00 | 18.00 | | | 16.20 | | | 14.40 | | |
| MB 60*100 | | | 100 | 72.00 | 20.00 | 18.00 | 16.00 | | | | | | | | |
| MB 60*125 | | | 125 | 57.60 | 25.00 | 22.50 | 20.00 | | | | | | | | |
| MB 60*150 | | | 150 | 48.00 | 30.00 | 27.00 | 24.00 | | | | | | | | |
| MB 60*175 | | | 175 | 41.14 | 35.00 | 31.50 | 28.00 | | | | | | | | |
| MB 60*200 | | | 200 | 36.00 | 40.00 | 36.00 | 32.00 | | | | | | | | |
| MB 60*250 | | | 250 | 28.80 | 50.00 | 45.00 | 40.00 | | | | | | | | |
| MB 60*300 | | | 300 | 24.00 | 60.00 | 54.00 | 48.00 | | | | | | | | |